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REMOVAL SUPPORT TEAM 2
EPA CONTRACT EP-W-06-072

RST 2-02-F-2778

TRANSMITTAL MEMO

To: Ángel Rodríguez, On-Scene Coordinator
Caribbean Environmental Protection Branch
U.S. EPA, Region II

From: Smita Sumbaly, Data Reviewer
RST 2, Region II

Subject: Puerto Rico Olefins Asbestos Site
Data Validation Assessment

Date: April 24, 2014

The purpose of this memo is to transmit the following information:

- Data validation results for the following parameters:

  Asbestos TEM 103 Samples

- Matrices and Number of Samples

  Microvacuum 96 Samples
  Field/Lot Blanks 7 Samples

- Sampling Dates: March 4 through 27, 2014

The final data assessment narrative and original analytical data package are attached.

cc: RST 2 SPM: Carlos Huertas
RST 2 SITE FILE TDD #: TO-0029-0122
ANALYTICAL TDD #: TO-0029-0133
PCS#: 7133

U.S. ENVIRONMENTAL PROTECTION AGENCY

MEMORANDUM

DATE: April 24, 2014

TO: Ángel Rodríguez, On-Scene Coordinator
U.S. EPA, Region II

FROM: Smita Sumbaly
RST 2 Data Review Team

SUBJECT: QA/QC Compliance Review Summary

As requested quality control and performance measures for the data packages noted have been examined and compared to EPA standards for compliance. Measures for the following general areas were evaluated as applicable:

Data Completeness
Sample Collection, Holding Times, and Preservation
Blank Analysis
Sample Sensitivity
Monthly Report TEM Calibrations

Any statistical measures used to support the following conclusions are attached so that the review may be reviewed by others.

Summary of Results

	I Asbestos TEM
Acceptable as Submitted	X
Acceptable with Comments	
Unacceptable, Action Pending	
Unacceptable	

Data Reviewed by: Smita Sumbaly Date: 4/24/14

Approved By: Date: 4/24/14

Area Code/Phone No.: (732) 585-4410

NARRATIVE

PCS No. 7133

SITE NAME: **Puerto Rico Olefins Asbestos Site**
PR 385 KM 5.4 Int., 127 Tallaboa Ponente,
Ward Penuelas, Puerto Rico

Laboratory Name: Batta Laboratories, 6 Garfield Way, Newark, DE 19713.

INTRODUCTION:

The laboratory's portion of this case consisted of 103 microvacuum samples, including five field blanks and two lot blank samples. All samples were collected from March 4 through 27, 2014. The Batta Lab Project Numbers are **L6888F and L6888G.**

The laboratory reported No problem(s) with the receipt of these samples.

The laboratory reported problems with the analyses of Asbestos TEM: Due to heavy particulate and serial dilutions, the sensitivity of some samples as required by the method was not reached.

The evaluator has commented on the criteria specified under each fraction heading. All criteria have been assessed, but no discussion is given where the evaluator has determined that criteria were adequately performed or require no comment. Details relevant to these comments are given on the following forms.

Appropriate Form Is and Chain of Custody have been copied from the original data package and appended to the data assessment narrative for reference.

Title: Evaluation of Asbestos Data
Data Assessment Narrative

RFP #: 279/Task#: 7133 **Site: Puerto Rico Olefins Asbestos Site**

Lab: Batta Laboratories **Matrix/No. of Samples: Microvacuum/103**

SDG#'s: L6888F and L6888G **Reviewer: SMITA SUMBALY**

Contractor: WESTON-RST 2

A.2.1 Validation Flags- The following flags have been applied in red by the data validator and must be considered by the data user.

J- This flag indicates the result qualified as estimated.

Red- Line- A red-line drawn through a sample result indicates an unusable value. The red-lined data are known to contain significant errors based on documented information and must not be used by the data user.

Fully Usable Data- The results that do not carry "J" or "red-line" are fully usable.

A.2.2 The data assessment is given below and on the attached sheets.

From March 4 through 27, 2014, U.S. EPA, Region II, RST 2 personnel collected 103 microvacuum samples, including five field blanks and two lot blank samples, from the Puerto Rico Olefins Asbestos Site, located at PR 385 KM 5.4 Int., 127 Tallaboa Ponente, Ward Penuelas, Puerto Rico. Within 24 hours of collections, samples were shipped via FedEx to Batta Laboratories, 6 Garfield Way, Newark, DE. The laboratory verified that the samples were received intact and properly custody sealed.

All microvacuum samples for asbestos were prepared and analyzed in accordance with Standard Test Method ASTM D5755-09 for Microvacuum Sampling and Indirect Analysis of Dust by Transmission Electron Microscopy for Asbestos Structure Number Surface Loading. Data was reported as asbestos str/cm^2 with fiber sizing and counting.

TEM analysis was performed using a procedure from TEM ASTM D5755-09. The sizing of structures (analysis) was performed on JEM-100 CX II microscope at approximately 19,000X magnification.

All the samples are reported as str/cm^2. The target analytical sensitivity for these samples were 260 str/cm^2. The project target sensitivity of this analysis is 260 s/cm^2. Due to heavy particulate and serial dilutions, the sensitivity of some samples as required by the method was not reached. An aspect ratio of >5.1 was applied.

The laboratory reported the area sampled, asbestos type, asbestos structure, sensitivity, and concentration of asbestos detected. Results are provided in Table 1.

Client identification (ID) and laboratory ID numbers are as follows:

Client ID No.	Laboratory ID No:	Matrix	Sampling Date	Analysis
SDG No.: FB-B-030414/Sampling Date: 3/4/2014				
FB-B-030414	786549	Field Blank	03/04/2014	Asbestos TEM
LB-B-030414	786550	Lot Blank	03/04/2014	Asbestos TEM
P0006-MV01-01	786551	Microvacuum	03/04/2014	Asbestos TEM
P0006-MV02-01	786552	Microvacuum	03/04/2014	Asbestos TEM
P0006-MV03-01	786553	Microvacuum	03/04/2014	Asbestos TEM
P0047-MV01-01	786554	Microvacuum	03/04/2014	Asbestos TEM
P0047-MV02-01	786555	Microvacuum	03/04/2014	Asbestos TEM
P0047-MV03-01	786556	Microvacuum	03/04/2014	Asbestos TEM
SDG No.: P0050-MV01-01/Sampling Date: 3/5/2014				
P0050-MV01-01	786581	Microvacuum	03/05/2014	Asbestos TEM
P0050-MV02-01	786582	Microvacuum	03/05/2014	Asbestos TEM
P0050-MV03-01	786583	Microvacuum	03/05/2014	Asbestos TEM
SDG No.: P0009-MV01-01/Sampling Date: 3/6/2014				
P0009-MV01-01	786623	Microvacuum	03/06/2014	Asbestos TEM
P0009-MV02-01	786624	Microvacuum	03/06/2014	Asbestos TEM
P0009-MV03-01	786625	Microvacuum	03/06/2014	Asbestos TEM
P0069-MV01-01	786626	Microvacuum	03/06/2014	Asbestos TEM
P0069-MV02-01	786627	Microvacuum	03/06/2014	Asbestos TEM
P0069-MV03-01	786628	Microvacuum	03/06/2014	Asbestos TEM
SDG No.: FB-B-030814/Sampling Dates: 3/7-8/2014				
FB-B-030814	786863	Field Blank	03/08/2014	Asbestos TEM
P0008-MV01-01	786864	Microvacuum	03/08/2014	Asbestos TEM
P0008-MV02-01	786865	Microvacuum	03/08/2014	Asbestos TEM
P0008-MV03-01	786866	Microvacuum	03/08/2014	Asbestos TEM
P0057-MV01-01	786867	Microvacuum	03/07/2014	Asbestos TEM
P0057-MV02-01	786868	Microvacuum	03/07/2014	Asbestos TEM
P0057-MV03-01	786869	Microvacuum	03/07/2014	Asbestos TEM
P0058-MV01-01	786870	Microvacuum	03/07/2014	Asbestos TEM
P0058-MV02-01	786871	Microvacuum	03/07/2014	Asbestos TEM
P0058-MV03-01	786872	Microvacuum	03/07/2014	Asbestos TEM
SDG No.: P0008-MV04-01/Sampling Date: 3/10/2014				
P0008-MV04-01	786913	Microvacuum	03/10/2014	Asbestos TEM
P0008-MV05-01	786914	Microvacuum	03/10/2014	Asbestos TEM
P0008-MV06-01	786915	Microvacuum	03/10/2014	Asbestos TEM
P0076-MV01-01	786916	Microvacuum	03/10/2014	Asbestos TEM
P0076-MV02-01	786917	Microvacuum	03/10/2014	Asbestos TEM
P0076-MV03-01	786918	Microvacuum	03/10/2014	Asbestos TEM
SDG No.: LB-B-031114/Sampling Date: 3/11/2014				
LB-B-031114	787009	Lot Blank	03/11/2014	Asbestos TEM
P0007-MV01-01	787010	Microvacuum	03/11/2014	Asbestos TEM
P0007-MV02-01	787011	Microvacuum	03/11/2014	Asbestos TEM
P0007-MV03-01	787012	Microvacuum	03/11/2014	Asbestos TEM
P0051-MV01-01	787013	Microvacuum	03/11/2014	Asbestos TEM
P0051-MV02-01	787014	Microvacuum	03/11/2014	Asbestos TEM
P0051-MV03-01	787015	Microvacuum	03/11/2014	Asbestos TEM

Client ID No.	Laboratory ID No:	Matrix	Sampling Date	Analysis
SDG No.: P0054-MV01-01/Sampling Date: 3/12/2014				
P0054-MV01-01	787063	Microvacuum	03/12/2014	Asbestos TEM
P0054-MV02-01	787064	Microvacuum	03/12/2014	Asbestos TEM
P0054-MV03-01	787065	Microvacuum	03/12/2014	Asbestos TEM
P0055-MV01-01	787066	Microvacuum	03/12/2014	Asbestos TEM
P0055-MV02-01	787067	Microvacuum	03/12/2014	Asbestos TEM
P0055-MV03-01	787068	Microvacuum	03/12/2014	Asbestos TEM
FB-B-031214	787069	Field Blank	03/12/2014	Asbestos TEM
SDG No.: P0065-MV01-01/Sampling Date: 3/13/2014				
P0065-MV01-01	787204	Microvacuum	03/13/2014	Asbestos TEM
P0065-MV02-01	787205	Microvacuum	03/13/2014	Asbestos TEM
P0065-MV03-01	787206	Microvacuum	03/13/2014	Asbestos TEM
P0067B-MV01-01	787207	Microvacuum	03/13/2014	Asbestos TEM
P0067B-MV02-01	787208	Microvacuum	03/13/2014	Asbestos TEM
P0067B-MV03-01	787209	Microvacuum	03/13/2014	Asbestos TEM
SDG No.: P0056A-MV01-01/Sampling Dates: 3/14-15/2014				
P0056A-MV01-01	787228	Microvacuum	03/15/2014	Asbestos TEM
P0056A-MV02-01	787229	Microvacuum	03/15/2014	Asbestos TEM
P0056A-MV03-01	787230	Microvacuum	03/15/2014	Asbestos TEM
P0056B-MV01-01	787231	Microvacuum	03/14/2014	Asbestos TEM
P0056B-MV02-01	787232	Microvacuum	03/14/2014	Asbestos TEM
P0056B-MV03-01	787233	Microvacuum	03/14/2014	Asbestos TEM
P0067A-MV01-01	787234	Microvacuum	03/14/2014	Asbestos TEM
P0067A-MV02-01	787235	Microvacuum	03/14/2014	Asbestos TEM
P0067A-MV03-01	787236	Microvacuum	03/14/2014	Asbestos TEM
P0074-MV01-01	787237	Microvacuum	03/15/2014	Asbestos TEM
P0074-MV02-01	787238	Microvacuum	03/15/2014	Asbestos TEM
P0074-MV03-01	787239	Microvacuum	03/15/2014	Asbestos TEM
SDG No.: FB-B-031814/Sampling Date: 3/18/2014				
FB-B-031814	787303	Field Blank	03/18/2014	Asbestos TEM
P0068-MV01-01	787304	Microvacuum	03/18/2014	Asbestos TEM
P0068-MV02-01	787305	Microvacuum	03/18/2014	Asbestos TEM
P0068-MV03-01	787306	Microvacuum	03/18/2014	Asbestos TEM
P0077-MV01-01	787307	Microvacuum	03/18/2014	Asbestos TEM
P0077-MV02-01	787308	Microvacuum	03/18/2014	Asbestos TEM
P0077-MV03-01	787309	Microvacuum	03/18/2014	Asbestos TEM
SDG No.: P0073-MV01-01/Sampling Date: 3/19/2014				
P0073-MV01-01	787412	Microvacuum	03/19/2014	Asbestos TEM
P0073-MV02-01	787413	Microvacuum	03/19/2014	Asbestos TEM
P0073-MV03-01	787414	Microvacuum	03/19/2014	Asbestos TEM
SDG No.: P0046-MV01-01/Sampling Date: 3/21/2014				
P0046-MV01-01	787612	Microvacuum	03/21/2014	Asbestos TEM
P0046-MV02-01	787613	Microvacuum	03/21/2014	Asbestos TEM
P0046-MV03-01	787614	Microvacuum	03/21/2014	Asbestos TEM

Client ID No.	Laboratory ID No:	Matrix	Sampling Date	Analysis
SDG No.: P0004-MV01-01/Sampling Date: 3/24/2014				
P0004-MV01-01	787690	Microvacuum	03/24/2014	Asbestos TEM
P0004-MV02-01	787691	Microvacuum	03/24/2014	Asbestos TEM
P0004-MV03-01	787692	Microvacuum	03/24/2014	Asbestos TEM
P0079-MV01-01	787693	Microvacuum	03/24/2014	Asbestos TEM
P0079-MV02-01	787694	Microvacuum	03/24/2014	Asbestos TEM
P0079-MV03-01	787695	Microvacuum	03/24/2014	Asbestos TEM
SDG No.: FB-B-032514/Sampling Date: 3/25/2014				
FB-B-032514	787742	Field Blank	03/25/2014	Asbestos TEM
P0005-MV01-01	787743	Microvacuum	03/25/2014	Asbestos TEM
P0005-MV02-01	787744	Microvacuum	03/25/2014	Asbestos TEM
P0005-MV03-01	787745	Microvacuum	03/25/2014	Asbestos TEM
P0049-MV01-01	787746	Microvacuum	03/25/2014	Asbestos TEM
P0049-MV02-01	787747	Microvacuum	03/25/2014	Asbestos TEM
P0049-MV03-01	787748	Microvacuum	03/25/2014	Asbestos TEM
SDG No.:P0186-MV01-01/Sampling Date: 3/26/2014				
P0186-MV01-01	787847	Microvacuum	03/26/2014	Asbestos TEM
P0186-MV02-01	787848	Microvacuum	03/26/2014	Asbestos TEM
P0186-MV03-01	787849	Microvacuum	03/26/2014	Asbestos TEM
P0187-MV01-01	787850	Microvacuum	03/26/2014	Asbestos TEM
P0187-MV02-01	787851	Microvacuum	03/26/2014	Asbestos TEM
P0187-MV03-01	787852	Microvacuum	03/26/2014	Asbestos TEM
P0188-MV01-01	787853	Microvacuum	03/26/2014	Asbestos TEM
P0188-MV02-01	787854	Microvacuum	03/26/2014	Asbestos TEM
P0188-MV03-01	787855	Microvacuum	03/26/2014	Asbestos TEM
SDG No.: P0189-MV01-01/Sampling Date: 3/27/2014				
P0189-MV01-01	787905	Microvacuum	03/27/2014	Asbestos TEM
P0189-MV02-01	787906	Microvacuum	03/27/2014	Asbestos TEM
P0189-MV03-01	787907	Microvacuum	03/27/2014	Asbestos TEM

Asbestos analysis of Microvacuum via TEM ASTM Method D5755-09:

A total of 103 microvacuum samples, including five field blanks and two lot blank, were analyzed by ASTM Method D5755-09 for asbestos structure number surface loading by TEM. Data was reported as asbestos s/cm^2.

A total of 103 samples were collected, including five field blanks and two lot blank samples. Chrysotile asbestos was detected in 65 of 103 field samples, Actinolite asbestos was detected in eight samples and Amosite asbestos was detected in one sample. All field samples concentrations were reported between <176.2 s/cm^2 to 12,728,000 s/cm^2. Field blank samples and non-detected samples were reported below the analytical sensitivity.

Laboratory reported that due to heavy particulate and serial dilutions, the sensitivity of some samples as required by the method was not reached.

For QC purposes, the laboratory analyzed one lab blank with every batch of samples, and no asbestos structures were detected. Laboratory also analyzed one replicate samples with every batch of

samples, daily and monthly report for calibration standards. All QC results are acceptable.

TEM Equipment Performance Check

The laboratory performed monthly report for TEM calibrations which includes Chrysotile Beam Dose sensitivity (quarterly), Camera Constant calibrations, Plasma Asher Calibration, Magnification Calibrations, Spot Size Measurements (Quarterly), K Factors (Semi-annually), Detector Resolution (Semi-annually/Quarterly), Significant Na and resolvable Mg-Si Peaks (Quarterly), and daily TEM Calibrations. All calibrations met the "pass" criteria. No qualifiers were applied based upon this parameter.

The results presented for the wipe samples are acceptable as reported. No qualifications were required.

A.2.3 Contract Problem/Non-Compliance:

None

Contractor Reviewer: Signature: 4/24/14 Date:

Verified by: Signature: 4/24/14 Date:

TABLE 1

Project: Puerto Rico Olefins Asbestos Site

Standard Test Methods for Microvacuum Sampling and Indirect Analysis of Dust by Transmission Electron Microscopy for Asbestos Structure Number Surface Loading - ASTM D5755-09

Client Sample ID Number	Laboratory Sample ID Number	Area Sampled (cm^2)	Area Analyzed (mm^2)	Number of Structures Detected	Asbestos Type Detected	Analytical Sensitivity (s/cm^2)	Limit of detection (s/mm^2)	Reported Concentration (s/cm^2)	Reported Density (s/mm^2)
SDG No.: FB-B-030414/Sampling Date: 3/4/2014									
FB-B-030414	786549	N/A	0.1300	0	None Detected	N/A	30.8	N/A	<30.77
LB-B-030414	786550	N/A	0.1300	0	None Detected	N/A	30.8	N/A	<30.77
P0006-MV01-01	786551	100	0.2600	0	None Detected	246.7	15.4	<246.7	<15.38
P0006-MV02-01	786552	100	0.2600	0	None Detected	246.7	15.4	<246.7	<15.38
P0006-MV03-01	786553	100	0.7410	55	Chrysotile	259.6	5.4	14280.7	74.22
P0047-MV01-01	786554	100	0.2600	0	None Detected	246.7	15.4	<246.7	<15.38
P0047-MV02-01	786555	100	0.2600	0	None Detected	246.7	15.4	<246.7	<15.38
P0047-MV03-01	786556	100	0.2600	0	None Detected	246.7	15.4	<246.7	<15.38
SDG No.: P0050-MV01-01/Sampling Date: 3/5/2014									
P0050-MV01-01	786581	100	0.1560	2	Chrysotile Actinolite	246.7	25.6	493.3	<25.64
P0050-MV02-01	786582	100	0.1560	12	Chrysotile Actinolite	246.7	25.6	2960.0	76.92
P0050-MV03-01	786583	100	0.1560	3	Chrysotile	246.7	25.6	740.0	<25.64
SDG No.: P0009-MV01-01/Sampling Date: 3/6/2014									
P0009-MV01-01	786623	100	0.1300	0	None Detected	246.7	30.8	<246.7	<30.77
P0009-MV02-01	786624	100	0.1300	0	None Detected	246.7	30.8	<246.7	<30.77
P0009-MV03-01	786625	100	0.1300	0	None Detected	246.7	30.8	<246.7	<30.77
P0069-MV01-01	786626	100	0.2210	102	Chrysotile Actinolite	870.6	18.1	88,800.0	461.54
P0069-MV02-01	786627	100	0.7540	60	Actinolite Chrysotile Amosite	255.2	5.3	15,310.3	79.58
P0069-MV03-01	786628	100	0.3770	22	Chrysotile Actinolite	255.2	10.6	5,613.80	58.36
SDG No.: FB-B-030814/Sampling Dates: 3/7-8/2014									
FB-B-030814	786863	N/A	0.1300	0	None Detected	N/A	30.8	N/A	<30.77
P0008-MV01-01	786864	100	0.1300	33	Chrysotile	246.7	30.8	8,140.0	253.85
P0008-MV02-01	786865	100	0.3770	72	Chrysotile	255.2	10.6	18,372.4	190.98
P0008-MV03-01	786866	100	0.1820	108	Chrysotile	1057.1	22.0	114,171.4	593.41
P0057-MV01-01	786867	100	0.1300	3	Chrysotile	246.7	30.8	740.0	<30.77
P0057-MV02-01	786868	100	0.1040	4	Chrysotile	231.3	38.5	925.0	38.46
P0057-MV03-01	786869	100	0.1040	0	None Detected	231.3	38.5	<231.3	<38.46
P0058-MV01-01	786870	100	0.3770	46	Chrysotile	255.2	10.6	11,737.9	122.02
P0058-MV02-01	786871	100	0.2470	0	None Detected	259.6	16.2	<259.6	<16.19
P0058-MV03-01	786872	100	0.2600	19	Chrysotile	246.7	15.4	4,686.7	73.08

N/A - Not Applicable

s/cm^2 - Structure/Centimeter Square

s/mm^2 - Structure/Milimeter Square

TABLE 1

Project: Puerto Rico Olefins Asbestos Site

Standard Test Methods for Microvacuum Sampling and Indirect Analysis of Dust by Transmission Electron Microscopy for Asbestos Structure Number Surface Loading - ASTM D5755-09

Client Sample ID Number	Laboratory Sample ID Number	Area Sampled (cm^2)	Area Analyzed (mm^2)	Number of Structures Detected	Asbestos Type Detected	Analytical Sensitivity (s/cm^2)	Limit of detection (s/mm^2)	Reported Concentration (s/cm^2)	Reported Density (s/mm^2)
SDG No.: P0008-MV01-04/Sampling Date: 3/10/2014									
P0008-MV04-01	786913	100	0.0260	344	Chrysotile	37,000.0	153.8	12,728,000.0	13,230.77
P0008-MV05-01	786914	100	0.2470	21	Chrysotile	259.6	16.2	5,452.6	85.02
P0008-MV06-01	786915	100	0.2600	104	Chrysotile	370.0	15.4	38,480.0	400.00
P0076-MV01-01	786916	100	0.1560	0	None Detected	246.7	25.6	<246.7	<25.64
P0076-MV02-01	786917	100	0.1560	1	Chrysotile	246.7	25.6	246.7	<25.64
P0076-MV03-01	786918	100	0.1560	4	Chrysotile	246.7	25.6	986.7	25.64
SDG No.: LB-B-031114/Sampling Date: 3/11/2014									
LB-B-031114	787009	N/A	0.1300	0	None Detected	N/A	30.8	N/A	<30.77
P0007-MV01-01	787010	100	0.1040	0	None Detected	231.3	38.5	<231.3	<38.46
P0007-MV02-01	787011	100	0.1040	3	Chrysotile	231.3	38.5	693.8	<38.46
P0007-MV03-01	787012	100	0.1170	37	Chrysotile	234.9	34.2	8,692.1	316.24
P0051-MV01-01	787013	100	0.1040	0	None Detected	231.3	38.5	<231.3	<38.46
P0051-MV02-01	787014	100	0.1560	36	Chrysotile	246.7	25.6	8,880.0	230.77
P0051-MV03-01	787015	100	0.1040	26	Chrysotile	231.3	38.5	6,012.5	250.00
SDG No.: P0054-MV01-01/Sampling Date: 3/12/2014									
P0054-MV01-01	787063	100	0.1040	5	Chrysotile	231.3	38.5	1,156.3	48.08
P0054-MV02-01	787064	100	0.1170	2	Chrysotile	234.9	34.2	469.8	<34.19
P0054-MV03-01	787065	100	0.0910	3	Chrysotile	234.9	44.0	704.8	<43.96
P0055-MV01-01	787066	100	0.0910	1	Chrysotile	234.9	44.0	234.9	<43.96
P0055-MV02-01	787067	100	0.0910	4	Chrysotile	234.9	44.0	939.7	43.96
P0055-MV03-01	787068	100	0.1560	10	Chrysotile	246.7	25.6	2,466.7	64.10
FB-B-031214	787069	N/A	0.1300	0	None Detected	N/A	30.8	N/A	<30.77
SDG No.: P0065-MV01-01/Sampling Date: 3/13/2014									
P0065-MV01-01	787204	100	0.1560	7	Chrysotile	246.7	25.6	1,726.7	44.87
P0065-MV02-01	787205	100	0.1950	5	Chrysotile	246.7	20.5	1,233.3	25.64
P0065-MV03-01	787206	100	0.1560	2	Chrysotile	246.7	25.6	493.3	<25.64
P0067B-MV01-01	787207	100	0.1560	0	None Detected	246.7	25.6	<246.7	<25.64
P0067B-MV02-01	787208	100	0.1950	83	Chrysotile	246.7	20.5	20,473.3	425.64
P0067B-MV03-01	787209	100	0.1300	35	Chrysotile	246.7	30.8	8,633.3	269.23

N/A - Not Applicable

s/cm^2 - Structure/Centimeter Square

s/mm^2 - Structure/Milimeter Square

TABLE 1

Project: Puerto Rico Olefins Asbestos Site

Standard Test Methods for Microvacuum Sampling and Indirect Analysis of Dust by Transmission Electron Microscopy for Asbestos Structure Number Surface Loading - ASTM D5755-09

Client Sample ID Number	Laboratory Sample ID Number	Area Sampled (cm^2)	Area Analyzed (mm^2)	Number of Structures Detected	Asbestos Type Detected	Analytical Sensitivity (s/cm^2)	Limit of detection (s/mm^2)	Reported Concentration (s/cm^2)	Reported Density (s/mm^2)
SDG No.: P0056A-MV01-01/Sampling Dates: 3/14-15/2014									
P0056A-MV01-01	787228	100	0.7410	6	Chrysotile	259.6	5.4	1,557.9	8.10
P0056A-MV02-01	787229	100	0.7410	55	Chrysotile	259.6	5.4	14,280.7	74.22
P0056A-MV03-01	787230	100	0.1040	2	Chrysotile	231.3	38.5	462.5	<38.46
P0056B-MV01-01	787231	100	0.1040	5	Chrysotile	231.3	38.5	1,156.3	48.08
P0056B-MV02-01	787232	100	0.1950	2	Chrysotile	246.7	20.5	493.3	<20.51
P0056B-MV03-01	787233	100	0.1040	0	None Detected	231.3	38.5	<231.3	<38.46
P0067A-MV01-01	787234	100	0.1170	70	Chrysotile	234.9	34.2	16,444.4	598.29
P0067A-MV02-01	787235	100	0.1040	1	Chrysotile	231.3	38.5	231.3	<38.46
P0067A-MV03-01	787236	100	0.1040	2	Chrysotile	231.3	38.5	462.5	<38.46
P0074-MV01-01	787237	100	0.1300	18	Chrysotile	246.7	30.8	4,440.0	138.46
P0074-MV02-01	787238	100	0.1040	20	Chrysotile	231.3	38.5	4,625.0	192.31
P0074-MV03-01	787239	100	0.1560	10	Chrysotile	246.7	25.6	2,466.7	64.10
SDG No.: FB-B-031814/Sampling Date: 3/18/2014									
FB-B-031814	787303	N/A	0.1300	0	None Detected	N/A	30.8	N/A	<30.77
P0068-MV01-01	787304	100	0.1040	0	None Detected	205.6	38.5	<205.6	<38.46
P0068-MV02-01	787305	100	0.1560	0	None Detected	246.7	25.6	<246.7	<25.64
P0068-MV03-01	787306	100	0.2210	0	None Detected	217.6	18.1	<217.6	<18.10
P0077-MV01-01	787307	100	0.1560	0	None Detected	176.2	25.6	<176.2	<25.64
P0077-MV02-01	787308	100	0.1170	0	None Detected	205.6	34.2	<205.6	<34.19
P0077-MV03-01	787309	100	0.0910	0	None Detected	234.9	44.0	<234.9	<43.96
SDG No.: P0073-MV01-01/Sampling Date: 3/19/2014									
P0073-MV01-01	787412	100	0.1040	5	Chrysotile	231.3	38.5	1,156.3	48.08
P0073-MV02-01	787413	100	0.1170	0	None Detected	205.6	34.2	<205.6	<34.19
P0073-MV03-01	787414	100	0.1820	0	None Detected	211.4	22.0	<211.4	<21.98
SDG No.: P0046-MV01-01/Sampling Date: 3/21/2014									
P0046-MV01-01	787612	100	0.1300	0	None Detected	246.7	30.8	<246.7	<30.77
P0046-MV02-01	787613	100	0.0910	0	None Detected	234.9	44.0	<234.9	<43.96
P0046-MV03-01	787614	100	0.0910	0	None Detected	234.9	44.0	<234.9	<43.96
SDG No.: P0004-MV01-01/Sampling Date: 3/24/2014									
P0004-MV01-01	787690	100	0.1300	12	Chrysotile	246.7	30.8	2,960.0	92.31
P0004-MV02-01	787691	100	0.1170	11	Chrysotile	234.9	34.2	2,584.1	94.02
P0004-MV03-01	787692	100	0.0910	6	Chrysotile	234.9	44.0	1,409.5	65.93
P0079-MV01-01	787693	100	0.0910	1	Chrysotile	234.9	44.0	234.9	<43.96
P0079-MV02-01	787694	100	0.1040	1	Chrysotile	231.3	38.5	231.3	<38.46
P0079-MV03-01	787695	100	0.1300	6	Chrysotile	246.7	30.8	1,480.0	46.15

N/A - Not Applicable

s/cm^2 - Structure/Centimeter Square

s/mm^2 - Structure/Milimeter Square

TABLE 1

Project: Puerto Rico Olefins Asbestos Site

Standard Test Methods for Microvacuum Sampling and Indirect Analysis of Dust by Transmission Electron Microscopy for Asbestos Structure Number Surface Loading - ASTM D5755-09

Client Sample ID Number	Laboratory Sample ID Number	Area Sampled (cm^2)	Area Analyzed (mm^2)	Number of Structures Detected	Asbestos Type Detected	Analytical Sensitivity (s/cm^2)	Limit of detection (s/mm^2)	Reported Concentration (s/cm^2)	Reported Density (s/mm^2)
SDG No.: FB-B-032514/Sampling Date: 3/25/2014									
FB-B-032514	787742	N/A	0.1300	0	None Detected	N/A	30.8	N/A	<30.77
P0005-MV01-01	787743	100	0.1560	9	Chrysotile Actinolite	246.7	25.6	2,220.0	57.69
P0005-MV02-01	787744	100	0.1950	33	Chrysotile Actinolite	246.7	20.5	8,140.0	169.23
P0005-MV03-01	787745	100	0.0780	0	None Detected	256.9	51.3	<256.9	<51.28
P0049-MV01-01	787746	100	0.1170	2	Chrysotile	234.9	34.2	469.8	<34.19
P0049-MV02-01	787747	100	0.1950	3	Chrysotile	246.7	20.5	740.0	<20.51
P0049-MV03-01	787748	100	0.1300	3	Chrysotile	246.7	30.8	740.0	<30.77
SDG No.:P0186-MV01-01/Sampling Date: 3/26/2014									
P0186-MV01-01	787847	100	0.0520	101	Chrysotile	925.0	76.9	93,425.0	1,942.31
P0186-MV02-01	787848	100	0.1300	20	Chrysotile	246.7	30.8	4,933.30	153.85
P0186-MV03-01	787849	100	0.3770	6	Chrysotile	255.2	10.6	1,531.0	15.92
P0187-MV01-01	787850	100	0.2470	6	Chrysotile Actinolite	259.6	16.2	1,557.9	24.29
P0187-MV02-01	787851	100	0.2470	16	Chrysotile	259.6	16.2	4,154.4	64.78
P0187-MV03-01	787852	100	1.2350	30	Chrysotile	259.6	3.2	7,789.5	24.29
P0188-MV01-01	787853	100	0.1170	0	None Detected	234.9	34.2	<234.9	<34.19
P0188-MV02-01	787854	100	0.1040	0	None Detected	231.3	38.5	<231.3	<38.46
P0188-MV03-01	787855	100	0.1170	0	None Detected	234.9	34.2	<234.9	<34.19
SDG No.: P0189-MV01-01/Sampling Date: 3/27/2014									
P0189-MV01-01	787905	100	0.0780	4	Chrysotile	246.7	51.3	986.7	51.28
P0189-MV02-01	787906	100	0.1040	4	Chrysotile	231.3	38.5	925.0	38.46
P0189-MV03-01	787907	100	0.1300	0	None Detected	246.7	30.8	<246.7	<30.77

N/A - Not Applicable

s/cm^2 - Structure/Centimeter Square

s/mm^2 - Structure/Milimeter Square

Batta Data Package Checklist

Company:	Batta Laboratories, Inc.	**EPA ID#:**	DE 004
EPA CASE#:	RFP 279 & 279A	**LAB PROJ#:**	L6888F & L6888G
EPA SDG#:	MULTIPLE	**Date Received:**	MULTIPLE
Total Units:	103	**Revision #:**	INITIAL

Data Package Type: ☐ Particle Size ☐ Moisture ☐ PLM ☐ PCM ☒ TEM

Sample Matrix: ☐ Bulk ☒ Soil ☐ Air ☐ Water

X	COC	X	Prep Sheet	See narrative	EDD
X	QA Data	X	Bench Sheet	NA	MISC.

Case Narrative:

This data package is pertinent to 103 samples received under the EPA orders RFP# 279 and 279A through Weston Solutions, Inc. for TEM analysis by the ASTM D 5755-09 method. Date of sample receiving and sample conditions, together with sample matrix information are documented on the client provided COC (s), EPA Region 2 SDG forms and/or custody forms.

The method utilized for the analysis is ASTM D 5755-09: Standard Test Method for Microvacuum Sampling and Indirect Analysis of Dust by Transmission Electron Microscopy for Asbestos Structure Number Surface Loading. The project target sensitivity of this analysis is 260 s/cm^2; however, due to heavy particulate loading (>50% filter coverage regardless of particulate thickness) and serial dilutions, the sensitivity of some samples could not be practically met. Please refer to the Data Validation section of this data package for stopping rules used for the analysis.

The data package contains one hardcopy report. Data CDs or DVDs that contain both hard copies and EDDs (in EPA Region 2 format) will be sent separately in a later package. This hardcopy data package is organized with sections in the following manner: EPA Region 2 DC-2 Form, Batta Check List (w/ case narratives), SDG Cover Sheet, Summary Report of Analysis, EPA Region 2 DC-1 Form, Lab Prep Sheet, Reanalysis and Blank Analysis, Data Validation, Calibrations and Routines, and Analytical Sheets For information on terminology, standard analysis and the March and April TEM routine calibrations, please refer to the previous data packages received for TEM NIOSH 7402 and ISO 13794 analyses.

Please direct all technical inquiries to: Bo Li, Ph. D., Batta Laboratories, Inc., Delaware Industrial Park, 6 Garfield Way, Newark, DE 19713; or at E-mail: bo.li@battaenv.com.

Signature: _____ **Title:** Manager

Print Name: Bo Li **Date:** 04/12/2014

SUMMARY REPORT OF ANALYSIS

BY

ASTM D 5755-09

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E.P.A. LAB ID# DE004

A.I.H.A./NLLAP #100448

NVLAP #101032

CERTIFICATE OF TEM ANALYSIS

Test Method: ASTM D 5755-09

Report Date: 3/7/2014

Sampling Data

BLI Project #: L6888F
Project Name: Weston Solutions
Sampling Location: Site 0029-0122
Date Sampled: 3/4/2014
Sampled By: CLIENT
Date Received: 3/6/2014

Analytical Data

Date Received: 3/6/2014 **Secondary EFA (mm²):** 962 **Media:** MCE **Pore Size (µm):** 0.22 **Grid Area (mm²):** 0.013
Date Prepped: 3/6/2014 **Prepped By:** BL **Date Analyzed:** 3/6/2014 **Analyzed By:** JX

	Client-Supplied Data				Analytical Data					Results	
Lab Sample #	Client Sample #	Sample Type	Sample Location	Area Sampled (cm²)	Area Analyzed (mm²)	Number of Structures Detected	Asbestos Types Detected	Analytical Sensitivity (s/cm²)	Limit of Detection (s/mm²) *	Reported Concantration (s/cm²)	Reported Density (s/mm²)
786549	FB-B-030414	ASTM	N/A	N/A	0.1300	0	None Detected	N/A	30.8	N/A	< 30.77
7B6550	LB-B-030414	ASTM	N/A	N/A	0.1300	0	None Detected	N/A	30.8	N/A	< 30.77
7B6551	P0006-MV01-01	ASTM	N/A	100.0	0.2600	0	None Detected	246.7	15.4	< 246.7	< 15.36
786552	P0006-MV02-01	ASTM	N/A	100.0	0.2600	0	None Detected	246.7	15.4	< 246.7	< 15.36
786553	P0006-MV03-01	ASTM	N/A	100.0	0.7410	55	Chrysotile	259.6	5.4	14,280.7	74.22
786554	P0047-MV01-01	ASTM	N/A	100.0	0.2600	0	None Detected	246.7	15.4	< 246.7	< 15.38
786555	P0047-MV02-01	ASTM	N/A	100.0	0.2600	0	None Detected	246.7	15.4	< 246.7	< 15.36
786556	P0047-MV03-01	ASTM	N/A	100.0	0.2600	0	None Detected	246.7	15.4	< 246.7	< 15.38

ANALYST: J. Xu **REVIEWED BY:**

Some samples may have involved serial dilutions to yield satisfactory loading for analysis, which results in different concentrations for the same amount of structures detected.

Electronic versions of the certificate of analysis (i.e. Excel files, PDF files, Word files, etc.) are not under the warranty of authenticity and accuracy of the original analytical results kept on file by the Batta Laboratories, Inc. (BLI). Under all circumstances BLI should be notified in writing for any changes made to these electronic certificates of analysis. Under no circumstances will BLI be liable for changes made to the electronic certificate of analysis without BLI's prior consent in writing.

* For this method used, the limit of detection (LD) is defined as, at a minimum, the counting of four asbestos structures during the TEM analysis. If less than four asbestos structures are counted, a "less than" sign (<) appears before the calculated concentration or density. ASTM method recommends that the analytical sensitivity be less than 1000 structures per centimeter squared. The actual reported sensitivity is calculated based on sampling area, filter size, dilution series, number of grids analyzed, etc.

Significance and use: This test method provides an index of the concentration of asbestos structures in the dust per unit surface area analyzed as derived from a quantitative TEM analysis. This method does not describe procedures or techniques required to evaluate the safety or habitability of buildings with asbestos-containing materials, or compliance with federal, state, or local regulations or statutes. It is the user's responsibility to make these terminations (cited from ASTM D5755-95). BLI strongly recommends users of the above reported results consult with adequate regulatory agencies for interpretation and actions.

Areas provided by the client. Batta Laboratories does not accept liability for results reported in s/cc. This report pertains only to the items tested and does not constitute endorsement by NVLAP or other U.S. government agencies. T:\TEM Analysis\Microvacs\MicroVac Reports\Current Version ASTM Reports\T5242\5242ASTM-(v.4d)pREV1.xls

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E.P.A. LAB ID# DE004

A.I.H.A./NLLAP #100448

NVLAP® NVLAP #101032

CERTIFICATE OF TEM ANALYSIS

Test Method: ASTM D 5755-09

Report Date: 3/7/2014

Sampling Data

BLI Project #: L6888F
Project Name: Weston Solutions
Sampling Location: Site 0029-0122
Date Sampled: 3/5/2014
Sampled By: CLIENT
Date Received: 3/7/2014

Analytical Data

Date Received: 3/7/2014 **Secondary EFA (mm^2):** 962 **Media:** MCE **Pore Size (µm):** 0.22 **Grid Area (mm^2):** 0.013
Date Prepped: 3/7/2014 **Prepped By:** AY **Date Analyzed:** 3/7/2014 **Analyzed By:** AY

	Client-Supplied Data				Analytical Data					Results	
Lab Sample #	Client Sample #	Sample Type	Sample Location	Area Sampled (cm^2)	Area Analyzed (mm^2)	Number of Structures Detected	Asbestos Types Detected	Analytical Sensitivity (s/cm^2)	Limit of Detection (s/mm^2) *	Reported Concentration (s/cm^2)	Reported Density (s/mm^2)
786581	P0050-MV01-01	ASTM	N/A	100.0	0.1560	2	Chrysotile Actinolite	246.7	25.6	493.3	< 25.64
786582	P0050-MV02-01	ASTM	N/A	100.0	0.1560	12	Chrysotile Actinolite	246.7	25.6	2,960.0	76.92
786583	P0050-MV03-01	ASTM	N/A	100.0	0.1560	3	Chrysotile	246.7	25.6	740.0	< 25.64

ANALYST: AY **REVIEWED BY:**

Some samples may have involved serial dilutions to yield satisfactory loading for analysis, which results in different concentrations for the same amount of structures detected.

Electronic versions of the certificate of analysis (i.e. Excel files, PDF files, Word files, etc.) are not under the warranty of authenticity and accuracy of the original analytical results kept on file by the Batta Laboratories, Inc. (BLI). Under all circumstances BLI should be notified in writing for any changes made to these electronic certificates of analysis. Under no circumstances will BLI be liable for changes made to the electronic certificate of analysis without BLI's prior consent in writing.

* For this method used, the limit of detection (LD) is defined as, at a minimum, the counting of four asbestos structures during the TEM analysis. If less than four asbestos structures are counted, a "less than" sign (<) appears before the calculated concentration or density. ASTM method recommends that the analytical sensitivity be less than 1000 structures per centimeter squared. The actual reported sensitivity is calculated based on sampling area, filter size, dilution series, number of grids analyzed, etc.

Significance and use: This test method provides an index of the concentration of asbestos structures in the dust per unit surface area analyzed as derived from a quantitative TEM analysis. This method does not describe procedures or techniques required to evaluate the safety or habitability of buildings with asbestos-containing materials, or compliance with federal, state, or local regulations or statutes. It is the user's responsibility to make these terminations (cited from ASTM D5755-95). BLI strongly recommends users of the above reported results consult with adequate regulatory agencies for interpretation and actions.

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Rev. #1

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E.P.A. LAB ID# DE004
A.I.H.A./NLLAP #100448
NVLAP #101032

CERTIFICATE OF TEM ANALYSIS

Test Method: ASTM D 5755-09

Report Date: 3/10/2014

Sampling Data

BLI Project #: L6888F
Project Name: WESTON SOLUTIONS, INC. - RST 2 RFP NO. 27 **Sampling Location:** 0029-0122
Date Sampled: 3/6/2014 **Sampled By:** CLIENT **Date Received:** 3/8/2014

Analytical Data

Date Received: 3/8/2014 **Secondary EFA (mm²):** 962 **Media:** MCE **Pore Size (µm):** 0.2 **Grid Area (mm²):** 0.013
Date Prepped: 3/8/2014 **Prepped By:** BL **Date Analyzed:** 3/9/2014 **Analyzed By:** JX/AY

	Client-Supplied Data				Analytical Data					Results	
Lab Sample #	Client Sample #	Sample Type	Sample Location	Area Sampled (cm²)	Area Analyzed (mm²)	Number of Structures Detected	Asbestos Types Detected	Analytical Sensitivity (s/cm²)	Limit of Detection (s/mm²) *	Reported Concentration (s/cm²)	Reported Density (s/mm²)
786623	P0009-MV01-01	ASTM	~~0029-0122~~ NA	100.0	0.1300	0	None Detected	246.7	30.8	< 246.7	< 30.77
786624	P0009-MV02-01	ASTM	~~0029-0122~~ NA	100.0	0.1300	0	None Detected	246.7	30.6	< 246.7	< 30.77
786625	P0009-MV03-01	ASTM	~~0029-0122~~ NA	100.0	0.1300	0	None Detected	246.7	30.8	< 246.7	< 30.77
786626	P0069-MV01-01	ASTM	~~0029-0122~~ NA	100.0	0.2210	102	Chrysotile Actinolite	870.6	18.1	88,800.0	461.54
786627	P0069-MV02-01	ASTM	~~0029-0122~~ NA	100.0	0.7540	60	Actinolite Chrysotile Amosite	255.2	5.3	15,310.3	79.58
786626	P0069-MV03-01	ASTM	~~0029-0122~~ NA	100.0	0.3770	22	Chrysotile Actinolite	255.2	10.6	5,613.8	58.36

Rev. #1: Total number of fibers corrected, sample 786626, changed from 103 to 102.

ANALYST: JX/ AY REVIEWED BY:

Some samples may have involved serial dilutions to yield satisfactory loading for analysis, which results in different concentrations for the same amount of structures detected.

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Significance and use: This test method provides an index of the concentration of asbestos structures in the dust per unit surface area analyzed as derived from a quantitative TEM analysis. This method does not describe procedures or techniques required to evaluate the safety or habitability of buildings with asbestos-containing materials, or compliance with federal, state, or local regulations or statutes. It is the user's responsibility to make these terminations (cited from ASTM D5755-95). BLI strongly recommends users of the above reported results consult with adequate regulatory agencies for interpretation and actions.

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E.P.A. LAB ID# DE004
A.I.H.A./NLLAP #100448
NVLAP #101032

CERTIFICATE OF TEM ANALYSIS

Test Method: ASTM D 5755-09

Report Date: 3/12/2014

Sampling Data

BLI Project #: L6888F
Project Name: Weston Solutions
Sampling Location: Site 0029-0122
Date Sampled: 3/7-3/8/14
Sampled By: CLIENT
Date Received: 3/11/2014

Analytical Data

Date Received: 3/11/2014 **Secondary EFA (mm^2):** 962 **Media:** MCE **Pore Size (µm):** 0.2 **Grid Area (mm^2):** 0.013
Date Prepped: 3/11/2014 **Prepped By:** AY **Date Analyzed:** 3/11-3/12/2014 **Analyzed By:** JX/AY

	Client-Supplied Data				Analytical Data					Results	
Lab Sample #	Client Sample #	Sample Type	Sample Location	Area Sampled (cm^2)	Area Analyzed (mm^2)	Number of Structures Detected	Asbestos Types Detected	Analytical Sensitivity (s/cm^2)	Limit of Detection (s/mm^2) *	Reported Concentration (s/cm^2)	Reported Density (s/mm^2)
786863	FB-B-030814	ASTM	n/a	0.0	0.1300	0	None Detected	n/a	30.8	n/a	< 30.77
786864	P0008-MV01-01	ASTM	n/a	100.0	0.1300	33	Chrysotile	246.7	30.8	8,140.0	253.85
786865	P0008-MV02-01	ASTM	n/a	100.0	0.3770	72	Chrysotile	255.2	10.8	18,372.4	190.98
786866	P0008-MV03-01	ASTM	n/a	100.0	0.1820	108	Chrysotile	1,057.1	22.0	114,171.4	593.41
786867	P0057-MV01-01	ASTM	n/a	100.0	0.1300	3	Chrysotile	246.7	30.8	740.0	< 30.77
786868	P0057-MV02-01	ASTM	n/a	100.0	0.1040	4	Chrysotile	231.3	38.5	925.0	38.46
786869	P0057-MV03-01	ASTM	n/a	100.0	0.1040	0	None Detected	231.3	38.5	< 231.3	< 38.46
786870	P0058-MV01-01	ASTM	n/a	100.0	0.3770	46	Chrysotile	255.2	10.6	11,737.9	122.02
786871	P0058-MV02-01	ASTM	n/a	100.0	0.2470	0	None Detected	259.6	16.2	< 259.6	< 16.19
786872	P0058-MV03-01	ASTM	n/a	100.0	0.2600	19	Chrysotile	246.7	15.4	4,686.7	73.08

ANALYST: JX/ AY **REVIEWED BY:**

Some samples may have involved serial dilutions to yield satisfactory loading for analysis, which results in different concentrations for the same amount of structures detected.

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Significance and use: This test method provides an index of the concentration of asbestos structures in the dust per unit surface area analyzed as derived from a quantitative TEM analysis. This method does not describe procedures or techniques required to evaluate the safety or habitability of buildings with asbestos-containing materials, or compliance with federal, state, or local regulations or statutes. It is the user's responsibility to make these terminations (cited from ASTM D5755-95). BLI strongly recommends users of the above reported results consult with adequate regulatory agencies for interpretation and actions.

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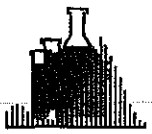

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E.P.A. LAB ID# DE004

A.I.H.A./NLLAP #100448

NVLAP® NVLAP #101032

CERTIFICATE OF TEM ANALYSIS

Test Method: ASTM D 5755-09

Report Date: 3/14/2014

Sampling Data

BLI Project #: L6888G
Project Name: Weston Solutions
Date Sampled: 3/10/2014
Sampling Location: 0029-0122
Sampled By: CLIENT
Date Received: 3/12/2014

Analytical Data

Date Received: 3/12/2014
Date Prepped: 3/12-13/2014
Secondary EFA (mm^2): 962
Prepped By: BL/JX/AY
Media: MCE
Pore Size (µm): 0.2
Date Analyzed: 3/13-14/2014
Grid Area (mm^2): 0.013
Analyzed By: JX/ AY

	Client-Supplied Data				Analytical Data					Results	
Lab Sample #	Client Sample #	Sample Type	Sample Location	Area Sampled (cm^2)	Area Analyzed (mm^2)	Number of Structures Detected	Asbestos Types Detected	Analytical Sensitivity (s/cm^2)	Limit of Detection (s/mm^2) *	Reported Concentration (s/cm^2)	Reported Density (s/mm^2)
786913	P0008-MV04-01	ASTM	n/a	100.0	0.0260	344	Chrysotile	37,000.0	153.8	12,728,000.0	13,230.77
786914	P0008-MV05-01	ASTM	n/a	100.0	0.2470	21	Chrysotile	259.6	16.2	5,452.6	85.02
786915	P0008-MV06-01	ASTM	n/a	100.0	0.2600	104	Chrysotile	370.0	15.4	38,480.0	400.00
786916	P0076-MV01-01	ASTM	n/a	100.0	0.1560	0	None Detected	246.7	25.6	< 246.7	< 25.64
786917	P0076-MV02-01	ASTM	n/a	100.0	0.1560	1	Chrysotile	246.7	25.6	246.7	< 25.64
786918	P0076-MV03-01	ASTM	n/a	100.0	0.1560	4	Chrysotile	246.7	25.6	986.7	25.64

ANALYST: JX/ AY **REVIEWED BY:**

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Significance and use: This test method provides an index of the concentration of asbestos structures in the dust per unit surface area analyzed as derived from a quantitative TEM analysis. This method does not describe procedures or techniques required to evaluate the safety or habitability of buildings with asbestos-containing materials, or compliance with federal, state, or local regulations or statutes. It is the user's responsibility to make these terminations (cited from ASTM D5755-95). BLI strongly recommends users of the above reported results consult with adequate regulatory agencies for interpretation and actions.

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E.P.A. LAB ID# DE004
A.I.H.A./NLLAP #100448
NVLAP #101032

CERTIFICATE OF TEM ANALYSIS

Test Method: ASTM D 5755-09

Report Date: 3/14/2014

Sampling Data

BLI Project #: L6888G
Project Name: Weston Solutions
Date Sampled: 3/11/2014
Sampling Location: Site 0029-0122
Sampled By: CLIENT
Date Received: 3/13/2014

Analytical Data

Date Received: 3/13/2014
Date Prepped: 3/13/2014
Secondary EFA (mm^2): 962
Prepped By: AY
Media:MCE
Pore Size (µm): 0.2
Date Analyzed: 3/14/2014
Grid Area (mm^2): 0.013
Analyzed By: AY

	Client-Supplied Data				Analytical Data					Results	
Lab Sample #	Client Sample #	Sample Type	Sample Location	Area Sampled (cm^2)	Area Analyzed (mm^2)	Number of Structures Detected	Asbestos Types Detected	Analytical Sensitivity (s/cm^2)	Limit of Detection (s/mm^2) *	Reported Concentration (s/cm^2)	Reported Density (s/mm^2)
787009	LB-B-031114	ASTM	n/a	0.0	0.1300	0	None Detected	n/a	30.8	n/a	< 30.77
787010	P0007-MV01-01	ASTM	n/a	100.0	0.1040	0	None Detected	231.3	38.5	< 231.3	< 38.46
787011	P0007-MV02-01	ASTM	n/a	100.0	0.1040	3	Chrysotile	231.3	38.5	693.8	< 38.46
787012	P0007-MV03-01	ASTM	n/a	100.0	0.1170	37	Chrysotile	234.9	34.2	8,692.1	316.24
787013	P0051-MV01-01	ASTM	n/a	100.0	0.1040	0	None Detected	231.3	38.5	< 231.3	< 38.46
787014	P0051-MV02-01	ASTM	n/a	100.0	0.1560	36	Chrysotile	246.7	25.6	8,880.0	230.77
787015	P0051-MV03-01	ASTM	n/a	100.0	0.1040	26	Chrysotile	231.3	38.5	6,012.5	250.00

ANALYST: AY

REVIEWED BY: _____

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E.P.A. LAB ID# DE004

A.I.H.A./NLLAP #100448

NVLAP #101032

CERTIFICATE OF TEM ANALYSIS

Test Method: ASTM D 5755-09

Report Date: 3/17/2014

Sampling Data

BLI Project #: L6888G
Project Name: Weston Solutions
Date Sampled: 3/12/2014
Sampling Location: 0029-0122
Sampled By: CLIENT
Date Received: 3/14/2014

Analytical Data

Date Received: 3/14/2014 **Secondary EFA (mm^2):** 962 **Media:** MCE **Pore Size (µm):** 0.2 **Grid Area (mm^2):** 0.013
Date Prepped: 3/15/2014 **Prepped By:** AY **Date Analyzed:** 3/17/2014 **Analyzed By:** AY

	Client-Supplied Data				Analytical Data					Results	
Lab Sample #	Client Sample #	Sample Type	Sample Location	Area Sampled (cm^2)	Area Analyzed (mm^2)	Number of Structures Detected	Asbestos Types Detected	Analytical Sensitivity (s/cm^2)	Limit of Detection (s/mm^2) *	Reported Concentration (s/cm^2)	Reported Density (s/mm^2)
787063	P0054-MV01-01	ASTM	n/a	100.0	0.1040	5	Chrysotile	231.3	38.5	1,156.3	48.08
787064	P0054-MV02-01	ASTM	n/a	100.0	0.1170	2	Chrysotile	234.9	34.2	469.8	< 34.19
787065	P0054-MV03-01	ASTM	n/a	100.0	0.0910	3	Chrysotile	234.9	44.0	704.8	< 43.96
787066	P0055-MV01-01	ASTM	n/a	100.0	0.0910	1	Chrysotile	234.9	44.0	234.9	< 43.96
787067	P0055-MV02-01	ASTM	n/a	100.0	0.0910	4	Chrysotile	234.9	44.0	939.7	43.96
787068	P0055-MV03-01	ASTM	n/a	100.0	0.1560	10	Chrysotile	246.7	25.6	2,466.7	64.10
787069	FB-B-031214	ASTM	n/a	0.0	0.1300	0	None Detected	n/a	30.8	n/a	< 30.77

ANALYST: AY **REVIEWED BY:**

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Significance and use: This test method provides an index of the concentration of asbestos structures in the dust per unit surface area analyzed as derived from a quantitative TEM analysis. This method does not describe procedures or techniques required to evaluate the safety or habitability of buildings with asbestos-containing materials, or compliance with federal, state, or local regulations or statutes. It is the user's responsibility to make these terminations (cited from ASTM D5755-95). BLI strongly recommends users of the above reported results consult with adequate regulatory agencies for interpretation and actions.

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E.P.A. LAB ID# DE004

A.I.H.A./NLLAP #100448

NVLAP #101032

CERTIFICATE OF TEM ANALYSIS

Test Method: ASTM D 5755-09

Report Date: 3/18/2014

Sampling Data

BLI Project #: L6868G
Project Name: Weston Solutions
Date Sampled: 3/13/2014
Sampling Location: 0029-0122
Sampled By: CLIENT
Date Received: 3/17/2014

Analytical Data

Date Received: 3/17/2014
Date Prepped: 3/17/2014
Secondary EFA (mm^2): 962
Prepped By: AY
Media: MCE
Pore Size (µm): 0.2
Date Analyzed: 3/18/2014
Grid Area (mm^2): 0.013
Analyzed By: AY

	Client-Supplied Data				Analytical Data					Results	
Lab Sample #	Client Sample #	Sample Type	Sample Location	Area Sampled (cm^2)	Area Analyzed (mm^2)	Number of Structures Detected	Asbestos Types Detected	Analytical Sensitivity (s/cm^2)	Limit of Detection (s/mm^2) *	Reported Concentration (s/cm^2)	Reported Density (s/mm^2)
787204	P0065-MV01-01	ASTM	n/a	100.0	0.1560	7	Chrysotile	246.7	25.6	1,726.7	44.87
787205	P0065-MV02-01	ASTM	n/a	100.0	0.1950	5	Chrysotile	246.7	20.5	1,233.3	25.64
787206	P0065-MV03-01	ASTM	n/a	100.0	0.1560	2	Chrysotile	246.7	25.6	493.3	< 25.64
787207	P0067B-MV01-01	ASTM	n/a	100.0	0.1560	0	None Detected	246.7	25.6	< 246.7	< 25.64
787208	P0067B-MV02-01	ASTM	n/a	100.0	0.1950	83	Chrysotile	246.7	20.5	20,473.3	425.64
787209	P0067B-MV03-01	ASTM	n/a	100.0	0.1300	35	Chrysotile	246.7	30.8	8,633.3	269.23

ANALYST: AY **REVIEWED BY:**

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E.P.A. LAB ID# DE004
A.I.H.A./NLLAP #100448
NVLAP® NVLAP #101032

CERTIFICATE OF TEM ANALYSIS

Test Method: ASTM D 5755-09

Report Date: 3/19/2014

Sampling Data

BLI Project #: L6888G
Project Name: Weston Solutions
Sampling Location: 0029-0122
Date Sampled: 3/14-15/2014
Sampled By: CLIENT
Date Received: 3/18/2014

Analytical Data

Date Received: 3/18/2014 **Secondary EFA (mm^2):** 962 **Media:** MCE **Pore Size (µm):** 0.2 **Grid Area (mm^2):** 0.013
Date Prepped: 3/18-19/2014 **Prepped By:** MH/AY **Date Analyzed:** 3/19-20/2014 **Analyzed By:** AY

	Client-Supplied Data				Analytical Data					Results	
Lab Sample #	Client Sample #	Sample Type	Sample Location	Area Sampled (cm^2)	Area Analyzed (mm^2)	Number of Structures Detected	Asbestos Types Detected	Analytical Sensitivity (s/cm^2)	Limit of Detection (s/mm^2) *	Reported Concentration (s/cm^2)	Reported Density (s/mm^2)
787228	P0056A-MV01-01	ASTM	n/a	100.0	0.7410	6	Chrysotile	259.6	5.4	1,557.9	8.10
787229	P0056A-MV02-01	ASTM	n/a	100.0	0.7410	55	Chrysotile	259.6	5.4	14,280.7	74.22
787230	P0056A-MV03-01	ASTM	n/a	100.0	0.1040	2	Chrysotile	231.3	38.5	462.5	< 38.46
787231	P0056B-MV01-01	ASTM	n/a	100.0	0.1040	5	Chrysotile	231.3	38.5	1,156.3	48.08
787232	P0056B-MV02-01	ASTM	n/a	100.0	0.1950	2	Chrysotile	246.7	20.5	493.3	< 20.51
787233	P0056B-MV03-01	ASTM	n/a	100.0	0.1040	0	None Detected	231.3	38.5	< 231.3	< 38.46
787234	P0067A-MV01-01	ASTM	n/a	100.0	0.1170	70	Chrysotile	234.9	34.2	16,444.4	598.29
787235	P0067A-MV02-01	ASTM	n/a	100.0	0.1040	1	Chrysotile	231.3	38.5	231.3	< 38.48
787236	P0067A-MV03-01	ASTM	n/a	100.0	0.1040	2	Chrysotile	231.3	38.5	462.5	< 38.46

ANALYST: AY REVIEWED BY:

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Significance and use: This test method provides an index of the concentration of asbestos structures in the dust per unit surface area analyzed as derived from e quanbitative TEM analysis. This method does not describe procedures or techniques required to evaluate the safety or habitability of buildings with asbestos-containing materials, or compliance with federal, state, or local regulations or statutes. It is the user's responsibility to make these terminations (cited from ASTM D5755-95). BLI strongly recommends users of the above reported results consult with adequate regulatory agencies for interpretation and actions.

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E.P.A. LAB ID# DE004
A.I.H.A./NLLAP #100448
NVLAP #101032

CERTIFICATE OF TEM ANALYSIS

Test Method: ASTM D 5755-09

Report Date: 3/20/2014

Sampling Data

BLI Project #: L6888G
Project Name: Weston Solutions
Date Sampled: 3/14-15/2014
Sampling Location: 0029-0122
Sampled By: CLIENT
Date Received: 3/18/2014

Analytical Data

Date Received: 3/18/2014 **Secondary EFA (mm^2):** 962 **Media:** MCE **Pore Size (µm):** 0.2 **Grid Area (mm^2):** 0.013
Date Prepped: 3/18-19/2014 **Prepped By:** MH/AY **Date Analyzed:** 3/20/2014 **Analyzed By:** AY

	Client-Supplied Data				Analytical Data					Results	
Lab Sample #	Client Sample #	Sample Type	Sample Location	Area Sampled (cm^2)	Area Analyzed (mm^2)	Number of Structures Detected	Asbestos Types Detected	Analytical Sensitivity (s/cm^2)	Limit of Detection (s/mm^2) *	Reported Concentration (s/cm^2)	Reported Density (s/mm^2)
787237	P0074-MV01-01	ASTM	n/a	100.0	0.1300	18	Chrysotile	246.7	30.8	4,440.0	138.46
787238	P0074-MV02-01	ASTM	n/a	100.0	0.1040	20	Chrysotile	231.3	38.5	4,625.0	192.31
787239	P0074-MV03-01	ASTM	n/a	100.0	0.1560	10	Chrysotile	246.7	25.6	2,466.7	64.10

ANALYST: AY REVIEWED BY:

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E.P.A. LAB ID# DE004
A.I.H.A./NLLAP #100448
NVLAP #101032

CERTIFICATE OF TEM ANALYSIS

Rev.#: 1 Test Method: ASTM D 5755-09 Report Date: 3/24/2014

Sampling Data

BLI Project #: L8888G
Project Name: Weston Solutions
Date Sampled: 3/18/2014
Sampling Location: 0029-0122
Sampled By: CLIENT
Date Received: 3/20/2014

Analytical Data

Date Received: 3/20/2014 **Secondary EFA (mm^2):** 962 **Media:** MCE **Pore Size (µm):** 0.2 **Grid Area (mm^2):** 0.013
Date Prepped: 3/20/2014 **Prepped By:** AY **Date Analyzed:** 3/21/2014 **Analyzed By:** JX

	Client-Supplied Data				Analytical Data					Results	
Lab Sample #	Client Sample #	Sample Type	Sample Location	Area Sampled (cm^2)	Area Analyzed (mm^2)	Number of Structures Detected	Asbestos Types Detected	Analytical Sensitivity (s/cm^2)	Limit of Detection (s/mm^2) *	Reported Concentration (s/cm^2)	Reported Density (s/mm^2)
787303	FB-B-031814	ASTM	n/a	0.0	0.1300	0	None Detected	n/a	30.8	n/a	< 30.77
787304	P0068-MV01-01	ASTM	n/a	100.0	0.1040	0	None Detected	205.6	38.5	< 205.6	< 38.46
787305	P0068-MV02-01	ASTM	n/a	100.0	0.1560	0	None Detected	246.7	25.6	< 246.7	< 25.64
787306	P0088-MV03-01	ASTM	n/a	100.0	0.2210	0	None Detected	217.6	18.1	< 217.6	< 18.10
787307	P0077-MV01-01	ASTM	n/a	100.0	0.1560	0	None Detected	176.2	25.6	< 176.2	< 25.64
787308	P0077-MV02-01	ASTM	n/a	100.0	0.1170	0	None Detected	205.6	34.2	< 205.6	< 34.19
787309	P0077-MV03-01	ASTM	n/a	100.0	0.0910	0	None Detected	234.9	44.0	< 234.9	< 43.96

Rev 1. : The result of sample 787304 was revised. The change has no impact on the structrues (if any) detected.

ANALYST: JX REVIEWED BY:

Some samples may have involved serial dilutions to yield satisfactory loading for analysis, which results in different concentrations for the same amount of structures detected.

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Significance and use: This test method provides an index of the concentration of asbestos structures in the dust per unit surface area analyzed as derived from a quantitative TEM analysis. This method does not describe procedures or techniques required to evaluate the safety or habitability of buildings with asbestos-containing materials, or compliance with federal, state, or local regulations or statutes. It is the user's responsibility to make these terminations (cited from ASTM D5755-95). BLI strongly recommends users of the above reported results consult with adequate regulatory agencies for interpretation and actions.

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E.P.A. LAB ID# DE004
A.I.H.A./NLLAP #100448
NVLAP #101032

CERTIFICATE OF TEM ANALYSIS

Test Method: ASTM D 5755-09 **Report Date:** 3/24/2014

Sampling Data

BLI Project #: L6888G
Project Name: Weston Solutions **Sampling Location:** 0029-0122
Date Sampled: 3/19/2014 **Sampled By:** CLIENT **Date Received:** 3/21/2014

Analytical Data

Date Received: 3/21/2014 **Secondary EFA (mm²):** 962 **Media:** MCE **Pore Size (µm):** 0.2 **Grid Area (mm²):** 0.013
Date Prepped: 3/21/2014 **Prepped By:** BLI AY **Date Analyzed:** 3/23/2014 **Analyzed By:** JX

	Client-Supplied Data				Analytical Data					Results	
Lab Sample #	Client Sample #	Sample Type	Sample Location	Area Sampled (cm²)	Area Analyzed (mm²)	Number of Structures Detected	Asbestos Types Detected	Analytical Sensitivity (s/cm²)	Limit of Detection (s/mm²) *	Reported Concentration (s/cm²)	Reported Density (s/mm²)
787412	P0073-MV01-01	ASTM	n/a	100.0	0.1040	5	Chrysotile	231.3	38.5	1,156.3	48.08
787413	P0073-MV02-01	ASTM	n/a	100.0	0.1170	0	None Detected	205.6	34.2	< 205.6	< 34.19
767414	P0073-MV03-01	ASTM	n/a	100.0	0.1820	0	None Detected	211.4	22.0	< 211.4	< 21.98

ANALYST: JX **REVIEWED BY:**

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Significance and use: This test method provides an index of the concentration of asbestos structures in the dust per unit surface area analyzed as derived from a quantitative TEM analysis. This method does not describe procedures or techniques required to evaluate the safety or habitability of buildings with asbestos-containing materials, or compliance with federal, state, or local regulations or statutes. It is the user's responsibility to make these terminations (cited from ASTM D5755-95). BLI strongly recommends users of the above reported results consult with adequate regulatory agencies for interpretation and actions.

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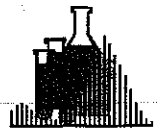

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E.P.A. LAB ID# DE004
A.I.H.A./NLLAP #100446
NVLAP #101032

CERTIFICATE OF TEM ANALYSIS

Test Method: ASTM D 5755-09

Report Date: 3/26/2014

Sampling Data

BLI Project #: L6668G
Project Name: Weston Solutions
Date Sampled: 3/21/2014
Sampling Location: 0029-0122
Sampled By: CLIENT
Date Received: 3/25/2014

Analytical Data

Date Received: 3/25/2014 **Secondary EFA (mm^2):** 962 **Media:** MCE **Pore Size (µm):** 0.2 **Grid Area (mm^2):** 0.013
Date Prepped: 3/25/2014 **Prepped By:** MH/ AY **Date Analyzed:** 3/26/2014 **Analyzed By:** AY

	Client-Supplied Data				Analytical Data					Results	
Lab Sample #	Client Sample #	Sample Type	Sample Location	Area Sampled (cm^2)	Area Analyzed (mm^2)	Number of Structures Detected	Asbestos Types Detected	Analytical Sensitivity (s/cm^2)	Limit of Detection (s/mm^2) *	Reported Concentration (s/cm^2)	Reported Density (s/mm^2)
767612	P0046-MV01-01	ASTM	n/a	100.0	0.1300	0	None Detected	246.7	30.6	< 246.7	< 30.77
767613	P0046-MV02-01	ASTM	n/a	100.0	0.0910	0	None Detected	234.9	44.0	< 234.9	< 43.96
767614	P0046-MV03-01	ASTM	n/a	100.0	0.0910	0	None Detected	234.9	44.0	< 234.9	< 43.96

ANALYST: AY **REVIEWED BY:**

Some samples may have involved serial dilutions to yield satisfactory loading for analysis, which results in different concentrations for the same amount of structures detected.

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Significance and use: This test method provides an index of the concentration of asbestos structures in the dust per unit surface area analyzed as derived from a quantitative TEM analysis. This method does not describe procedures or techniques required to evaluate the safety or habitability of buildings with asbestos-containing materials, or compliance with federal, state, or local regulations or statutes. It is the user's responsibility to make these terminations (cited from ASTM 05755-95). aLi strongly recommends users of the above reported results consult with adequate regulatory agencies for interpretation and actions.

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E.P.A. LAB ID# DE004
A.I.H.A./NLLAP #100448
NVLAP #101032

CERTIFICATE OF TEM ANALYSIS

Rev. #: 1

Test Method: ASTM D 5755-09

Report Date: 3/27/2014

Sampling Data

BLI Project #: L6888G
Project Name: Weston Solutions
Date Sampled: 3/24/2014
Sampling Location: 0029-0122
Sampled By: CLIENT
Date Received: 3/26/2014

Analytical Data

Date Received: 3/26/2014
Date Prepped: 3/26/2014
Secondary EFA (mm²): 962
Prepped By: MH/JX
Media: MCE
Pore Size (µm): 0.2
Date Analyzed: 3/26-3/27/14
Grid Area (mm²): 0.013
Analyzed By: JX/AY

	Client-Supplied Data				Analytical Data					Results	
Lab Sample #	Client Sample #	Sample Type	Sample Location	Area Sampled (cm²)	Area Analyzed (mm²)	Number of Structures Detected	Asbestos Types Detected	Analytical Sensitivity (s/cm²)	Limit of Detection (s/mm²) *	Reported Concentration (s/cm²)	Reported Density (s/mm²)
787690	P0004-MV01-01	ASTM	n/a	100.0	0.1300	12	Chrysotile	246.7	30.8	2,960.0	92.31
787691	P0004-MV02-01	ASTM	n/a	100.0	0.1170	11	Chrysotile	234.9	34.2	2,584.1	94.02
787692	P0004-MV03-01	ASTM	n/a	100.0	0.0910	6	Chrysotile	234.9	44.0	1,409.5	65.93
787693	P0079-MV01-01	ASTM	n/a	100.0	0.0910	1	Chrysotile	234.9	44.0	234.9	< 43.96
787694	P0079-MV02-01	ASTM	n/a	100.0	0.1040	1	Chrysotile	231.3	38.5	231.3	< 38.46
787695	P0079-MV03-01	ASTM	n/a	100.0	0.1300	6	Chrysotile	246.7	30.8	1,480.0	46.15

Rev. 1: Total number of structures detected for sample 787692 was revised. No significant impact on the final result.

ANALYST: JX/AY

REVIEWED BY:

Some samples may have involved serial dilutions to yield satisfactory loading for analysis, which results in different concentrations for the same amount of structures detected.

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Significance and use: This test method provides an index of the concentration of asbestos structures in the dust per unit surface area analyzed as derived from a quantitative TEM analysis. This method does not describe procedures or techniques required to evaluate the safety or habitability of buildings with asbestos-containing materials, or compliance with federal, state, or local regulations or statutes. It is the user's responsibility to make these terminations (cited from ASTM D5755-95). BLI strongly recommends users of the above reported results consult with adequate regulatory agencies for interpretation and actions.

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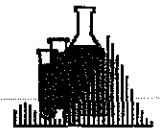

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E.P.A. LAB ID# DE004

A.I.H.A./NLLAP #100448

NVLAP #101032

CERTIFICATE OF TEM ANALYSIS

Test Method: ASTM D 5755-09

Report Date: 3/28/2014

Sampling Data

BLI Project #: L6888G
Project Name: Weston Solutions
Dete Sampled: 3/25/2014
Sampling Location: 0029-0122
Sampled By: CLIENT
Date Received: 3/27/2014

Analytical Data

Date Received: 3/27/2014 **Secondary EFA (mm^2):** 962 **Media:** MCE **Pore Size (µm):** 0.2 **Grid Area (mm^2):** 0.013
Date Prepped: 3/27/2014 **Prepped By:** MH/JX **Date Analyzed:** 3/27-28/2014 **Analyzed By:** JX

	Client-Supplied Data				Analytical Data					Results	
Lab Sample #	Client Sample #	Sample Type	Sample Location	Area Sampled (cm^2)	Area Analyzed (mm^2)	Number of Structures Detected	Asbestos Types Detected	Analytical Sensitivity (s/cm^2)	Limit of Detection (s/mm^2) *	Reported Concentration (s/cm^2)	Reported Density (s/mm^2)
787742	FB-B-032514	ASTM	n/a	0.0	0.1300	0	None Detected	N/A	30.8	N/A	< 30.77
787743	P0005-MV01-01	ASTM	n/a	100.0	0.1560	9	Chrysotile Actinolite	246.7	25.6	2,220.0	57.69
787744	P0005-MV02-01	ASTM	n/a	100.0	0.1950	33	Chrysotile Actinolite	246.7	20.5	8,140.0	169.23
787745	P0005-MV03-01	ASTM	n/a	100.0	0.0780	0	None Detected	256.9	51.3	< 256.9	< 51.28
787746	P0049-MV01-01	ASTM	n/a	100.0	0.1170	2	Chrysotile	234.9	34.2	469.8	< 34.19
787747	P0049-MV02-01	ASTM	n/a	100.0	0.1950	3	Chrysotile	246.7	20.5	740.0	< 20.51
787748	P0049-MV03-01	ASTM	n/a	100.0	0.1300	3	Chrysotile	246.7	30.8	740.0	< 30.77

ANALYST: JX/ AY **REVIEWED BY:**

Some samples may have involved serial dilutions to yield satisfactory loading for analysis, which results in different concentrations for the same amount of structures detected.

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Significance and use: This test method provides an index of the concentration of asbestos structures in the dust per unit surface area analyzed as derived from a quantitative TEM analysis. This method does not describe procedures or techniques required to evaluate the safety or habitability of buildings with asbestos-containing materials, or compliance with federal, state, or local regulations or statutes. It is the user's responsibility to make these terminations (cited from ASTM D5755-95). BLI strongly recommends users of the above reponed results consult with adequate regulatory agencies for interpretation and actions.

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E.P.A. LAB ID# DE004
A.I.H.A./NLLAP #100448
NVLAP #101032

CERTIFICATE OF TEM ANALYSIS

Test Method: ASTM D 5755-09

Report Date: 3/31/2014

Sampling Data

BLI Project #: L6888G
Project Name: Weston Solutions
Date Sampled: 3/26/2014
Sampling Location: 0029-0122
Sampled By: CLIENT
Date Received: 3/28/2014

Analytical Data

Date Received: 3/28/2014
Date Prepped: 3/28/2014
Secondary EFA (mm^2): 962
Prepped By: AY
Media: MCE
Pore Size (µm): 0.2
Date Analyzed: 3/30-3/31/14
Grid Area (mm^2): 0.013
Analyzed By: AY

	Client-Supplied Data				Analytical Data					Results	
Lab Sample #	Client Sample #	Sample Type	Sample Location	Area Sampled (cm^2)	Area Analyzed (mm^2)	Number of Structures Detected	Asbestos Types Detected	Analytical Sensitivity (s/cm^2)	Limit of Detection (s/mm^2) *	Reported Concentration (s/cm^2)	Reported Density (s/mm^2)
787847	P0186-MV01-01	ASTM	n/a	100.0	0.0520	101	Chrysolile	925.0	76.9	93,425.0	1,942.31
787848	P0186-MV02-01	ASTM	n/a	100.0	0.1300	20	Chrysotile	246.7	30.8	4,933.3	153.85
787849	P0186-MV03-01	ASTM	n/a	100.0	0.3770	6	Chrysotile	255.2	10.6	1,531.0	15.92
787850	P0187-MV01-01	ASTM	n/a	100.0	0.2470	6	Chrysotile Actinolite	259.6	16.2	1,557.9	24.29
787851	P0187-MV02-01	ASTM	n/a	100.0	0.2470	16	Chrysotile	259.6	16.2	4,154.4	64.78
787852	P0187-MV03-01	ASTM	n/a	100.0	1.2350	30	Chrysotile	259.6	3.2	7,789.5	24.29
787853	P0188-MV01-01	ASTM	n/a	100.0	0.1170	0	None Detected	234.9	34.2	< 234.9	< 34.19
787854	P0188-MV02-01	ASTM	n/a	100.0	0.1040	0	None Detected	231.3	38.5	< 231.3	< 38.46
787855	P0188-MV03-01	ASTM	n/a	100.0	0.1170	0	None Detected	234.9	34.2	< 234.9	< 34.19

ANALYST: AY

REVIEWED BY:

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E.P.A. LAB ID# DE004

A.I.H.A./NLLAP #100448

NVLAP® #101032

CERTIFICATE OF TEM ANALYSIS

Test Method: ASTM D 5755-09

Report Date: 3/31/2014

Sampling Data

BLI Project #: L6888G
Project Name: Weston Solutions
Date Sampled: 3/27/2014
Sampling Location: 0029-0122
Sampled By: CLIENT
Date Received: 3/31/2014

Analytical Data

Date Received: 3/31/2014
Secondary EFA (mm^2): 962
Media: MCE
Pore Size (µm): 0.2
Grid Area (mm^2): 0.013
Date Prepped: 3/31/2014
Prepped By: AY/ JX
Date Analyzed: 3/31/2014
Analyzed By: AY

	Client-Supplied Data				Analytical Data					Results	
Lab Sample #	Client Sample #	Sample Type	Sample Location	Area Sampled (cm^2)	Area Analyzed (mm^2)	Number of Structures Detected	Asbestos Types Detected	Analytical Sensitivity (s/cm^2)	Limit of Detection (s/mm^2) *	Reported Concentration (s/cm^2)	Reported Density (s/mm^2)
787905	P0189-MV01-01	ASTM	n/a	100.0	0.0780	4	Chrysotile	246.7	51.3	986.7	51.28
787906	P0189-MV02-01	ASTM	n/a	100.0	0.1040	4	Chrysotile	231.3	38.5	925.0	38.46
787907	P0189-MV03-01	ASTM	n/a	100.0	0.1300	0	None Detected	246.7	30.8	< 246.7	< 30.77

ANALYST: AY

REVIEWED BY: _____

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RFP# 279

CHAIN OF CUSTODY RECORD
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Contact Name: Joel Petty
Contact Phone: 732-570-4943

No: 2-030514-143815-0022
Cooler #: 1
Lab: Batta Environmental Associates, Inc.
Lab Phone: 302-737-3376

Lab #	Sample #	Analyses	Matrix	Collection Method	Collected	Sample Time	Numb Cont	Container	Preservative	Area Width	Area Length	Vol Units	Lab QC
786549	FB-B-030414	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Blank	3/4/2014	08:16	1	MCE Cassette	None				N
550	LB-B-030414	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Blank	3/4/2014	08:15	1	MCE Cassette	None				N
551	P0006-MV01-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/4/2014	09:50	1	MCE Cassette	None	10	10	cm	N
552	P0006-MV02-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/4/2014	09:53	1	MCE Cassette	None	10	10	cm	N
553	P0006-MV03-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/4/2014	09:56	1	MCE Cassette	None	10	10	cm	N
554	P0047-MV01-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/4/2014	11:05	1	MCE Cassette	None	10	10	cm	N
555	P0047-MV02-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/4/2014	11:08	1	MCE Cassette	None	10	10	cm	N
556	P0047-MV03-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/4/2014	11:11	1	MCE Cassette	None	10	10	cm	N

Special Instructions: 24 Hour TAT Preliminary Data. Email results to Carlos.Huertas@WestonSolutions.com, Joel.Petty@WestonSolutions.com, and S.Sumbaly@WestonSoltuions.com

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
all samples all analyses	Joel Petty RST3	3/5/14 1600	Bonnie M. Batta Laboratories, Inc.	3/6/14 0955	

RFP# 279 & 279A DATA PACKAGE: TEM ANALYSIS BY ASTM D 5755-09 BATT LABORATORIES, INC.

USEPA
DateShipped: 3/6/2014
RFP# 279

CHAIN OF CUSTODY RECORD
Site #: 0029 - 0122
Contact Name: Joel Petty
Contact Phone: 732-570-4943

No: 2-030614-131902-0024
Cooler #: 1
Lab: Batta Environmental Associates, Inc.
Lab Phone: 302-737-3376

Lab #	Sample #	Anatyses	Matrix	Collection Method	Collected	Sample Time	Numb Cont	Container	Preservative	Area Width	Area Length	Vol Units	Lab QC
786581	P0050-MV01-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/5/2014	10:22	1	MCE Cassette	None	10	10	cm	N
582	P0050-MV02-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/5/2014	10:25	1	MCE Cassette	None	10	10	cm	N
583	P0050-MV03-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/5/2014	10:28	1	MCE Cassette	None	10	10	cm	N

Joel Petty

Special Instructions: 24 Hour TAT Preliminary Data. Email results to Carlos.Huertas@WestonSolutions.com, Joel.Petty@WestonSolutions.com, and S.Sumbaly@WestonSolutions.com

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
all samples all analyses	Joel Petty RST 2	3/6/14 1430	Bonnie Mei BATTA LABORATORIES	3/7/14 @ 0948	

USEPA
DateShipped: 3/7/2014
RFP# 279

CHAIN OF CUSTODY RECORD
Site #: 0029 - 0122
Contact Name: Joel Petty
Contact Phone: 732-570-4943

No: 2-030714-125913-0027
Cooler #: 1
Lab: Batta Environmental Associates, Inc.
Lab Phone: 302-737-3376

Lab #	Sample #	Analyses	Matrix	Collection Method	Collected	Sample Time	Numb Cont	Container	Preservative	Area Width	Area Length	Vol Units	Lab QC
786823	P0009-MV01-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/6/2014	08:53	1	MCE Cassette	None	10	10	cm	N
24	P0009-MV02-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/6/2014	08:56	1	MCE Cassette	None	10	10	cm	N
25	P0009-MV03-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/6/2014	09:00	1	MCE Cassette	None	10	10	cm	N
26	P0069-MV01-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/6/2014	09:40	1	MCE Cassette	None	10	10	cm	N
27	P0069-MV02-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/6/2014	09:45	1	MCE Cassette	None	10	10	cm	N
28	P0069-MV03-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/6/2014	09:50	1	MCE Cassette	None	10	10	cm	N

Joel Petty

Special Instructions: 24 Hour TAT Preliminary Data. Email results to Carlos.Huertas@WestonSolutions.com, Joel.Petty@WestonSolutions.com, and S.Sumbaly@WestonSoltulons.com

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
all samples all analyses	Joel Petty RST2	3/7/14 1400			
			Bo Li	03/08/14 16:30	Acceptable

USEPA
DateShipped: 3/10/2014
RFP# 279

CHAIN OF CUSTODY RECORD
Site #: 0029 - 0122
Contact Name: Joel Petty
Contact Phone: 732-570-4943

No: 2-031014-112158-0029
Cooler #: 1
Lab: Batta Environmental Associates, Inc.
Lab Phone: 302-737-3376

Lab #	Sample #	Analyses	Matrix	Collection Method	Collected	Sample Time	Numb Cont	Container	Preservative	Area Width	Area Length	Vol Units	Lab QC
786863	FB-B-030814	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Blank	3/8/2014	08:12	1	MCE Cassette	None				N
864	P0008-MV01-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/8/2014	08:21	1	MCE Cassette	None	10	10	cm	N
865	P0008-MV02-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/8/2014	08:24	1	MCE Cassette	None	10	10	cm	N
866	P0008-MV03-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/8/2014	08:27	1	MCE Cassette	None	10	10	cm	N
867	P0057-MV01-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/7/2014	09:50	1	MCE Cassette	None	10	10	cm	N
868	P0057-MV02-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/7/2014	09:53	1	MCE Cassette	None	10	10	cm	N
869	P0057-MV03-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/7/2014	09:56	1	MCE Cassette	None	10	10	cm	N
870	P0058-MV01-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/7/2014	08:35	1	MCE Cassette	None	10	10	cm	N
871	P0058-MV02-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/7/2014	08:38	1	MCE Cassette	None	10	10	cm	N
872	P0058-MV03-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/7/2014	08:41	1	MCE Cassette	None	10	10	cm	N

Special Instructions: 24 Hour TAT Preliminary Data. Email results to Carlos.Huertas@WestonSolutions.com, Joel.Petty@WestonSolutions.com, and S.Sumbaly@WestonSoltulons.com

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
all samples all analyses	Joel Petty RST2	3/10/14 1230	Bonnie Mei BATTA LABORATORIES	3/11/14 @ 1040	

USEPA
DateShipped: 3/11/2014
RFP# 279

CHAIN OF CUSTODY RECORD
Site #: 0029 - 0122
Contact Name: Joel Petty
Contact Phone: 732-570-4943

No: 2-031114-112923-0032
Cooler #: 1
Lab: Batta Environmental Associates, Inc.
Lab Phone: 302-737-3376

Lab #	Sample #	Analyses	Matrix	Collection Method	Collected	Sample Time	Numb Cont	Container	Preservative	Area Width	Area Length	Vol Units	Lab QC
86913	P0008-MV04-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/10/2014	09:00	1	MCE Cassette	None	10	10	cm	N
914	P0008-MV05-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/10/2014	09:05	1	MCE Cassette	None	10	10	cm	N
915	P0008-MV06-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/10/2014	09:10	1	MCE Cassette	None	10	10	cm	N
916	P0076-MV01-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/10/2014	08:05	1	MCE Cassette	None	10	10	cm	N
917	P0076-MV02-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/10/2014	08:08	1	MCE Cassette	None	10	10	cm	N
918	P0076-MV03-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/10/2014	08:11	1	MCE Cassette	None	10	10	cm	N

Special Instructions: 24 Hour TAT Preliminary Data. Email results to Carlos.Huertas@WestonSolutions.com, Joel.Petty@WestonSolutions.com, and S.Sumbaly@WestonSoltuions.com

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
all samples all analyses	Joel Petty RST2	3/11/14 1400	Bonnie Mei Batta Laboratories	3/12/14 0930	

RFP# 279 & 279A DATA PACKAGE: TEM ANALYSIS BY ASTM D 5755-09 BATT LABORATORIES, INC.

USEPA
DateShipped: 3/12/2014
RFP# 279

CHAIN OF CUSTODY RECORD
Site #: 0029 - 0122
Contact Name: Joel Petty
Contact Phone: 732-570-4943

No: 2-031214-124740-0034
Cooler #: 1
Lab: Batta Environmental Associates, Inc.
Lab Phone: 302-737-3376

Lab #	Sample #	Analyses	Matrix	Collection Method	Collected	Sample Time	Numb Cont	Container	Preservative	Area Width	Area Length	Vol Units	Lab QC
787009	LB-B-031114	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Blank	3/11/2014	08:06	1	MCE Cassette	None				N
010	P0007-MV01-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/11/2014	08:40	1	MCE Cassette	None	10	10	cm	N
011	P0007-MV02-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/11/2014	08:45	1	MCE Cassette	None	10	10	cm	N
012	P0007-MV03-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/11/2014	08:50	1	MCE Cassette	None	10	10	cm	N
013	P0051-MV01-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/11/2014	10:00	1	MCE Cassette	None	10	10	cm	N
014	P0051-MV02-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/11/2014	10:05	1	MCE Cassette	None	10	10	cm	N
015	P0051-MV03-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/11/2014	10:10	1	MCE Cassette	None	10	10	cm	N

Joel Petty

Special Instructions: 24 Hour TAT Preliminary Data. Email results to Carlos.Huertas@WestonSolutions.com, Joel.Petty@WestonSolutions.com, and S.Sumbaly@WestonSolfulons.com

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
all samples all analyses	Joel Petty RST 2	3/12/14 1400	Bonnie Mc Batta Laboratories	3/13/14 @ 0936	

USEPA
DateShipped: 3/13/2014
RFP# 279

CHAIN OF CUSTODY RECORD
Site #: 0029 - 0122
Contact Name: Joel Petty
Contact Phone: 732-570-4943

No: 2-031314-083702-0036
Cooler #: 1
Lab: Batta Environmental Associates, Inc.
Lab Phone: 302-737-3376

Lab #	Sample #	Analyses	Matrix	Collection Method	Collected	Sample Time	Numb Cont	Container	Preservative	Area Width	Area Length	Vol Units	Lab QC
78063	P0054-MV01-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/12/2014	08:15	1	MCE Cassette	None	10	10	cm	N
064	P0054-MV02-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/12/2014	08:20	1	MCE Cassette	None	10	10	cm	N
065	P0054-MV03-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/12/2014	08:25	1	MCE Cassette	None	10	10	cm	N
066	P0055-MV01-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/12/2014	08:50	1	MCE Cassette	None	10	10	cm	N
067	P0055-MV02-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/12/2014	08:55	1	MCE Cassette	None	10	10	cm	N
068	P0055-MV03-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/12/2014	09:00	1	MCE Cassette	None	10	10	cm	N
069	FB-B-031214	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Blank	3/12/2014	08:07	1	MCE Cassette	None				N

Joel Petty

Special Instructions: 24 Hour TAT Preliminary Data. Email results to Carlos.Huertas@WestonSolutions.com, Joel.Petty@WestonSolutions.com, and S.Sumbaly@WestonSoltuions.com

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
all sample all analyses	Joel Petty RST2	3/13/13 1430	Bom. Mi BATTA LABORATORIES	3/14/14 0917	

USEPA
DateShipped: 3/14/2014
RFP# 279

CHAIN OF CUSTODY RECORD
Site #: 0029 - 0122
Contact Name: Joel Petty
Contact Phone: 732-570-4943

No: 2-031414-123221-0038
Cooler #: 1
Lab: Batta Environmental Associates, Inc.
Lab Phone: 302-737-3376

Lab #	Sample #	Analyses	Matrix	Collection Method	Collected	Sample Time	Numb Cont	Container	Preservative	Area Width	Area Length	Vol Units	Lab QC
187204	P0065-MV01-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/13/2014	08:35	1	MCE Casselte	None	10	10	cm	N
205	P0065-MV02-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/13/2014	08:40	1	MCE Cassette	None	10	10	cm	N
206	P0065-MV03-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/13/2014	08:45	1	MCE Cassette	None	10	10	cm	N
207	P0067B-MV01-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/13/2014	09:45	1	MCE Cassette	None	10	10	cm	N
208	P0067B-MV02-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/13/2014	09:50	1	MCE Cassette	None	10	10	cm	N
209	P0067B-MV03-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/13/2014	09:55	1	MCE Cassette	None	10	10	cm	N

Joel Petty

Special Instructions: 24 Hour TAT Preliminary Data. Email results to Carlos.Huertas@WestonSolutions.com, Joal.Petty@WestonSolutions.com, and S.Sumbaly@WestonSoltuions.com

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
all samples all analyses	Joel Petty RST2	3/14/14 1400	Bonnie M. BATTA LABORATORIES	3/17/14 @ 1042	

USEPA
DateShipped: 3/17/2014
RFP# 279

CHAIN OF CUSTODY RECORD
Site #: 0029 - 0122
Contact Name: Joel Petty
Contact Phone: 732-570-4943

No: 2-031714-132944-0040
Cooler #: 1
Lab: Batta Environmental Associates, Inc.
Lab Phone: 302-737-3376

Lab #	Sample #	Analyses	Matrix	Collection Method	Collected	Sample Time	Numb Cont	Container	Preservative	Area Width	Area Length	Vol Units	Lab QC
228	P0056A-MV01-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/15/2014	08:43	1	MCE Cassette	None	10	10	cm	N
229	P0056A-MV02-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/15/2014	08:47	1	MCE Cassette	None	10	10	cm	N
230	P0056A-MV03-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/15/2014	08:53	1	MCE Cassette	None	10	10	cm	N
231	P0056B-MV01-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/14/2014	05:25	1	MCE Cassette	None	10	10	cm	N
232	P0056B-MV02-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/14/2014	05:30	1	MCE Cassette	None	10	10	cm	N
233	P0056B-MV03-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/14/2014	05:35	1	MCE Cassette	None	10	10	cm	N
234	P0067A-MV01-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/14/2014	06:25	1	MCE Cassette	None	10	10	cm	N
235	P0067A-MV02-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/14/2014	06:30	1	MCE Cassette	None	10	10	cm	N
236	P0067A-MV03-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/14/2014	06:35	1	MCE Cassette	None	10	10	cm	N
237	P0074-MV01-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/15/2014	07:45	1	MCE Cassette	None	10	10	cm	N

Special Instructions: 24 Hour TAT Preliminary Data. Email results to Carlos.Huertas@WestonSolutions.com, Joel.Petty@WestonSolutions.com, and S.Sumbaly@WestonSolutions.com

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
all samples all analyses	Joel Petty RST 2	3/17/14 1530	Bonnie Mei BATTA LABORATORIES	3/18/14 0943	

USEPA
DateShipped: 3/17/2014
RFP# 279

CHAIN OF CUSTODY RECORD
Site #: 0029 - 0122
Contact Name: Joel Petty
Contact Phone: 732-570-4943

No: 2-031714-132944-0040
Cooler #: 1
Lab: Batta Environmental Associates, Inc.
Lab Phone: 302-737-3376

Lab #	Sample #	Analyses	Matrix	Collection Method	Collected	Sample Time	Numb Cont	Container	Preservative	Area Width	Area Length	Vol Units	Lab QC
781258	P0074-MV02-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/15/2014	07:50	1	MCE Cassette	None	10	10	cm	N
↓ 259	P0074-MV03-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/15/2014	07:55	1	MCE Cassette	None	10	10	cm	N

Special Instructions: 24 Hour TAT Preliminary Data. Email results to Carlos.Huertas@WestonSolutions.com, Joel.Petty@WestonSolutions.com, and S.Sumbaly@WestonSoltuions.com

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
all samples all analyses	Joel Petty RST2	3/17/14 1530	Bonnie Mui BATTA LABORATORIES	3/18/14 @ 0943	

USEPA
DateShipped: 3/19/2014
RFP# 279

CHAIN OF CUSTODY RECORD
Site #: 0029 - 0122
Contact Name: Joel Petty
Contact Phone: 732-570-4943

No: 2-031914-111812-0042
Cooler #: 1
Lab: Batta Environmental Associates, Inc.
Lab Phone: 302-737-3376

Lab #	Sample #	Analyses	Matrix	Collection Method	Collected	Sample Time	Numb Cont	Container	Preservative	Area Width	Area Length	Vol Units	Lab QC
787303	FB-B-031814	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Blank	3/18/2014	07:16	1	MCE Cassette	None				N
304	P0068-MV01-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/18/2014	08:50	1	MCE Cassette	None	10	10	cm	N
305	P0068-MV02-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/18/2014	08:55	1	MCE Cassette	None	10	10	cm	N
306	P0068-MV03-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/18/2014	09:00	1	MCE Cassette	None	10	10	cm	N
307	P0077-MV01-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/18/2014	07:45	1	MCE Cassette	None	10	10	cm	N
308	P0077-MV02-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/18/2014	07:50	1	MCE Cassette	None	10	10	cm	N
309	P0077-MV03-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/18/2014	07:55	1	MCE Cassette	None	10	10	cm	N

Joel Petty

Special Instructions: 24 Hour TAT Preliminary Data. Email results to Carlos.Huertas@WestonSolutions.com, Joel.Petty@WestonSolutions.com, and S.Sumbaly@WestonSoltuions.com

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
all samples all analyses	Joel Petty RST2	3/19/14 1500	Bonnie Mei BATTA LABORATORIES	3/20/14 0945	

USEPA
DateShipped: 3/20/2014
RFP# 279

CHAIN OF CUSTODY RECORD
Site #: 0029 - 0122
Contact Name: Joel Petty
Contact Phone: 732-570-4943

No: 2-032014-111349-0044
Cooler #: 1
Lab: Batta Environmental Associates, Inc.
Lab Phone: 302-737-3376

Lab #	Sample #	Analyses	Matrix	Collection Method	Collected	Sample Time	Numb Cont	Container	Preservative	Area Width	Area Length	Vol Units	Lab QC
78442	P0073-MV01-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/19/2014	07:45	1	MCE Cassette	None	10	10	cm	N
43	P0073-MV02-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/19/2014	07:50	1	MCE Cassette	None	10	10	cm	N
44	P0073-MV03-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/19/2014	07:55	1	MCE Cassette	None	10	10	cm	N

Joel Petty

Special Instructions: 24 Hour TAT Preliminary Data. Email results to Carlos.Huertas@WestonSolutions.com, Joel.Petty@WestonSolutions.com, and S.Sumbaly@WestonSoltuions.com

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
all samples all analyses	Joel Petty RST2	3/20/14 1400			

USEPA
DateShipped: 3/24/2014
RFP# 279

CHAIN OF CUSTODY RECORD
Site #: 0029 - 0122
Contact Name: Joel Petty
Contact Phone: 732-570-4943

No: 2-032414-132026-0046
Cooler #: 1
Lab: Batta Environmental Associates, Inc.
Lab Phone: 302-737-3376

Lab #	Sample #	Analyses	Matrix	Collection Method	Collected	Sample Time	Numb Cont	Container	Preservative	Area Width	Area Length	Vol Units	Lab QC
78612	P0046-MV01-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/21/2014	08:35	1	MCE Cassette	None	10	10	cm	N
613	P0046-MV02-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/21/2014	08:40	1	MCE Cassette	None	10	10	cm	N
614	P0046-MV03-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/21/2014	08:45	1	MCE Cassette	None	10	10	cm	N

Joel Petty

Special Instructions: 24 Hour TAT Preliminary Data. Email results to Carlos.Huertas@WestonSolutions.com, Joel.Petty@WestonSolutions.com, and S.Sumbaly@WestonSoltuions.com

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
all samples all analyses	Joel Petty RST2	3/24/14 1430	Bonnie Mei Batta Laboratories	3/25/14@0940	

USEPA
DateShipped: 3/25/2014
RFP# 279

CHAIN OF CUSTODY RECORD
Site #: 0029 - 0122
Contact Name: Joel Petty
Contact Phone: 732-570-4943

No: 2-032514-124807-0049
Cooler #: 1
Lab: Batta Environmental Associates, Inc.
Lab Phone: 302-737-3376

Lab #	Sample #	Analyses	Matrix	Collection Method	Collected	Sample Time	Numb Cont	Container	Preservative	Area Width	Area Length	Vol Units	Lab QC
787690	P0004-MV01-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/24/2014	09:35	1	MCE Cassette	None	10	10	cm	N
691	P0004-MV02-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/24/2014	09:40	1	MCE Cassette	None	10	10	cm	N
692	P0004-MV03-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/24/2014	09:45	1	MCE Cassette	None	10	10	cm	N
693	P0079-MV01-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/24/2014	08:15	1	MCE Cassette	None	10	10	cm	N
694	P0079-MV02-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/24/2014	08:20	1	MCE Cassette	None	10	10	cm	N
695	P0079-MV03-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/24/2014	08:25	1	MCE Cassette	None	10	10	cm	N

Joel Petty

Special Instructions: 24 Hour **TAT** Preliminary Data. Email results to Carlos.Huertas@WestonSolutions.com, Joel.Petty@WestonSolutions.com, and S.Sumbaly@WestonSoltulons.com

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
all samples all analyses	Joel Petty RST2	3/25/14 1330	Bonnie Mei BATTA LABORATORIES	3/26/14 0930	

RFP# 279 & 279A DATA PACKAGE: TEM ANALYSIS BY ASTM D 5755-09 BATT LABORATORIES, INC.

USEPA
DateShipped: 3/26/2014
RFP# 279

CHAIN OF CUSTODY RECORD
Site #: 0029 - 0122
Contact Name: Joel Petty
Contact Phone: 732-570-4943

No: 2-032614-130240-0051
Cooler #: 1
Lab: Batta Environmental Associates, Inc.
Lab Phone: 302-737-3376

Lab #	Sample #	Analyses	Matrix	Collection Method	Collected	Sample Time	Numb Cont	Container	Preservative	Area Width	Area Length	Vol Units	Lab QC
18742	FB-B-032514	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Blank	3/25/2014	08:16	1	MCE Cassette	None				N
743	P0005-MV01-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/25/2014	08:45	1	MCE Cassette	None	10	10	cm	N
744	P0005-MV02-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/25/2014	08:50	1	MCE Cassette	None	10	10	cm	N
745	P0005-MV03-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/25/2014	08:55	1	MCE Cassette	None	10	10	cm	N
746	P0049-MV01-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/25/2014	09:45	1	MCE Cassette	None	10	10	cm	N
747	P0049-MV02-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/25/2014	09:50	1	MCE Cassette	None	10	10	cm	N
748	P0049-MV03-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/25/2014	09:55	1	MCE Cassette	None	10	10	cm	N

Joel Petty

Special Instructions: 24 Hour TAT Preliminary Data. Email results to Carlos.Huertas@WestonSolutions.com, Joel.Petty@WestonSolutions.com, and S.Sumbaly@WestonSoltuions.com

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
all samples all analyses	Joel Petty RST2	3/26/14 1400	Bonnie Mc: BATTA LABORATORIES	3/27/14 @ 1000	

USEPA
DateShipped: 3/27/2014
RFP# 279

CHAIN OF CUSTODY RECORD
Site #: 0029 - 0122
Contact Name: Joel Petty
Contact Phone: 732-570-4943

No: 2-032714-112206-0054
Cooler #: 1
Lab: Batta Environmental Associates, Inc.
Lab Phone: 302-737-3376

Lab #	Sample #	Analyses	Matrix	Collection Method	Collected	Sample Time	Numb Cont	Container	Preservative	Area Width	Area Length	Vol Units	Lab QC
78847	P0186-MV01-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/26/2014	08:45	1	MCE Cassette	None	10	10	cm	N
848	P0186-MV02-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/26/2014	08:50	1	MCE Cassette	None	10	10	cm	N
849	P0186-MV03-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/26/2014	08:55	1	MCE Cassette	None	10	10	cm	N
850	P0187-MV01-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/26/2014	09:45	1	MCE Cassette	None	10	10	cm	N
851	P0187-MV02-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/26/2014	09:50	1	MCE Cassette	None	10	10	cm	N
852	P0187-MV03-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/26/2014	09:55	1	MCE Cassette	None	10	10	cm	N
853	P0188-MV01-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/26/2014	10:30	1	MCE Cassette	None	10	10	cm	N
854	P0188-MV02-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/26/2014	10:35	1	MCE Cassette	None	10	10	cm	N
855	P0188-MV03-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/26/2014	10:40	1	MCE Cassette	None	10	10	cm	N

Joel Petty

Special Instructions: 24 Hour TAT Preliminary Data. Email results to Carlos.Huertas@WestonSolutions.com, Joel.Petty@WestonSolutions.com, and S.Sumbaly@WestonSoltuions.com

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
all samples all analyses	Joel Petty RST2	3/27/14 1330	Bonnie Mai Batta Laboratories	3/28/14 @ 1026	

USEPA
DateShipped: 3/28/2014
RFP# 279

CHAIN OF CUSTODY RECORD
Site #: 0029 - 0122
Contact Name: Joel Petty
Contact Phone: 732-570-4943

No: 2-032814-101418-0056
Cooler #: 1
Lab: Batta Environmental Associates, inc.
Lab Phone: 302-737-3376

Lab #	Sample #	Analyses	Matrix	Collection Method	Collected	Sample Time	Numb Cont	Container	Preservative	Area Width	Area Length	Vol Units	Lab QC
78905	P0189-MV01-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/27/2014	10:45	1	MCE Cassette	None	10	10	cm	N
906	P0189-MV02-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/27/2014	10:50	1	MCE Cassette	None	10	10	cm	N
907	P0189-MV03-01	Asbestos TEM (ASTM D-5755-09)	Microvacuum	Grab	3/27/2014	10:55	1	MCE Cassette	None	10	10	cm	N

Joel Petty

Special Instructions: 24 Hour TAT Preliminary Data. Email results to Carlos.Huertas@WestonSolutions.com, Joel.Petty@WestonSolutions.com, and S.Sumbaly@WestonSoltuions.com

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
all samples all analyses	Joel Petty RST2	3/28/14 1130	Bonnie Mei BATTA LABORATORIES	3/31/14 1025	